United States Army

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Army Knowledge Management (AKM) Guidance Memorandum - Capabilities-Based Information Technology (IT) Portfolio Governance Implementing Guidance

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21 **05 January 2006**
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28 **"Our Army at War -- Relevant and Ready"**
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30   **Contents** (Listed by paragraph and page number)
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72   **Glossary**
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76   The Army Knowledge Management (AKM) Guidance Memorandum entitled Capabilities-Based
77   Information Technology (IT) Portfolio Governance signed 20 July 2005 directs the CIO/G6, in
78   coordination with Mission Area (MA)/Domain Leads, to issue implementing guidance. This
79   implementing guidance is a transformational effort that defines evolving processes to ensure IT
80   investments/capabilities:
81   (1) Align to support current operations and transformation;
82   (2) Provide measurable support to the WarFighter;
83   (3) Align to Mission Area/Domain portfolios; and
84   (4) That are interoperable, integrated and configured to support the enterprise.
85
86   The Army has a goal of identifying and reducing redundant and stove-piped IT investments by
87   80% by the end of Fiscal Year 2007. To achieve this goal, the Army is implementing annual
88   Army enterprise-wide IT Portfolio Reviews of IT investments/capabilities commencing in 2nd
89   Quarter FY06. IT investments must be managed as portfolios that are capability-based, linked to
90   strategic goals, and linked to integrated architectures. Aligning IT investments to portfolios will
91   allow the Army to increase efficiency/effectiveness through the elimination/consolidation of
92   redundant or outdated capabilities, and provide increased technical performance. IT Investment
93   portfolios will support the Army's Mission, Vision, and Goals; ensure an efficient delivery of
94   capabilities to the Warfighter; and maximize return on investment to the enterprise.
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96   To support IT investments/capabilities as portfolios, the Army is developing an IT Portfolio
97   Review Process. This process will require all MA/Domain Leads to participate in Enterprise-
98   level IT Portfolio Reviews, and at a minimum take the following actions:
99   (1) Maintain a baseline of all IT investment/capabilities
100   *(a)* Identify IT investments/capabilities as Core / Interim / Legacy
101   *(b)* Ensure IT investments/capabilities are registered in the Army Portfolio
102   Management Solution - Army IT Registry (APMS-AITR) module and DoD repositories. Failure
103   to register IT investments/capabilities in the appropriate repositories will place funding at risk
104   (2) Provide a plan for reducing redundant and stove-piped IT investments/capabilities by
105   80% by the end of Fiscal Year 2007
106   (3) Utilize the Army Portfolio Management Solution (APMS) as the primary portfolio
107   management decision support tool
108   (4) As appropriate, verify that the portfolio complies with integration/interoperability
109   testing and configuration management of IT investment/capabilities at the Central Technical
110   Support Facility (CTSF)
111   (5) Ensure the development and utilization of MA/Domain architecture products with the
112   Army Chief Architect.
113   (6) Promote Net-Centric data strategy through the use of Communities of Interest (COIs)
114   as applicable.
115
116   Initial Army IT Portfolio Management (PfM) Reviews will be held early in the 2nd Quarter FY06
117   to provide an overview of each MA and their associated Domains PfM plans and processes.
118   Regular annual PfM Reviews will commence in the 3rd Quarter FY06. After every review cycle

119 and/or as appropriate, best practices and lessons learned will be incorporated into these
120 processes.
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122 This guidance applies to HQDA, its field operating agencies (FOAs), major commands
123 (MACOMs), Program Executive Offices (PEO), and all other Army agencies or commands that
124 define, design, implement, and integrate IT capabilities.
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129   STEVEN W. BOUTELLE
130   Lieutenant General, GS
131   Chief Information Officer/G-6
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162 **Chapter 1**
163 **Purpose**
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165   *a.* This document provides guidance to implement a capabilities-based IT Portfolio
Management (PfM) Process as directed by the AKM Capabilities-Based IT Portfolio
Governance Memorandum (hereafter referred to as the IT Portfolio Governance Memorandum).
Figure 1 outlines the Domains in the Army Mission Area/Domain Structure. The Army is
institutionalizing a standard PfM process which is compliant with, and supportive of, DoD
Enterprise-wide force transformation. This implementing guidance is a transformational effort
that defines evolving processes to ensure IT investments/capabilities:
172   (1) Align to support current operations and transformation;
173   (2) Provide measurable support to the WarFighter;
174   (3) Align to Mission Area (MA)/Domain portfolios; and
175   (4) That are interoperable, integrated and configured to support the enterprise.
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178 # Army Mission Area/Domain Structure
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201 **Figure 1 – Army Mission Area/Domain Structure**

202   *b.* This guidance will leverage existing Army processes and procedures, while establishing a
repeatable process which affords decision makers visibility of IT investments and the capabilities
they provide. The PfM Process will focus on the capabilities IT investments provide to the
Warfighter. This guidance will:
206   (1) facilitate the management and oversight of potential IT investments;

207   (2) encourage the use of MA/Domain architecture products to support investment
208 decisions and facilitate the implementation of an Enterprise Architecture;
209   (3) support and facilitate existing decision processes, such as the Joint Capabilities
210 Integration and Development System (JCIDS), Planning, Programming, Budgeting and
211 Execution process (PPBE), and Defense Acquisition System (DAS), utilizing portfolios as a
212 management tool;
213   (4) allow enterprise-wide participation in the management of IT investments based upon
214 objective and measurable criteria; and
215   (5) facilitate JCIDS and DAS in providing input to the funding Program Evaluation
216 Groups (PEGs) during the budget process relating to IT priorities.
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218 Chapter 2
219 Background

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221   *a.* IT investments/capabilities supporting the Army have grown in number, scope and
222 complexity. As new capabilities are required and new technologies evolve, a coordinated policy
223 and process must ensure IT investments provide the 'right capabilities' at the 'right time'.
224   *b.* IT PfM is driven by the Clinger-Cohen Act (CCA) of 1996, DoD Directive 8115.01 – IT
225 Portfolio Management, and other recent DoD and the Office of Management and Budget (OMB)
226 direction. The PfM Process must analyze, track, and evaluate the risks and results for all IT
227 capital investments. This process covers the life cycle of each investment and includes explicit
228 criteria for analyzing the projected and actual costs, benefits, and risks associated for each
229 investment.
230   *c.* DoD has established four MAs for Global Information Grid (GIG) Enterprise Services:
231 WarFighting, Business, Enterprise Information Environment (EIE), and Defense Intelligence.
232   *d.* The IT Portfolio Governance Memorandum, co-signed on 20 July 2005 by the Secretary of
233 the Army and the Chief of Staff Army, designates Army Leads for each MA and Domain. This
234 designation of Army Leads aligned with the DoD construct establishes reporting authorities and
235 responsibilities consistent with current laws, policies and regulations.
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237 Chapter 3
238 Applicability & Scope

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240 3-1. Applicability
241 This PfM guidance applies to all components of the Army.

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243 3-2. Scope
244   *a.* This document provides processes, procedures, guidance, and responsibilities for the MAs
245 and their Domains in the management of IT investments as portfolios. The PfM Process will
246 ensure that IT investments are capability-based and linked to strategic goals. They must promote
247 and support interoperability, Information Assurance, Joint and Expeditionary operations, and the
248 modular force structure. IT investment decisions will include consideration of:
249   (1) appropriate risk tolerance levels,
250   (2) increased efficiencies
251   (3) elimination/consolidation of redundant or stove-pipe IT investments/capabilities

252   (4) appropriate architecture products.
253   *b.* IT PfM governance includes all Army IT investments that are connected to the GIG. This
254   includes all MA and Domain systems that exchange information through the Defense
255   Information Systems Network and the LandWarNet, which enables improvements in
256   collaboration, analysis, decision making, situational awareness, and integration; as well as
257   providing a more capable and reliable network. Effective IT infrastructure, information
258   assurance, architecture, and associated investment oversight are essential to achieving integrated
259   end-to-end (E2E) Enterprise Solutions for meeting capability requirements.
260   *c.* It is imperative that the Army develop a formal, structured, repeatable IT PfM Process for
261   the enterprise. To facilitate this effort, this document outlines guidance for implementing
262   directives associated with the IT Portfolio Governance Memorandum. It also articulates the
263   roles, responsibilities, processes, tools, and information needed to determine and continuously
264   adjust the optimum set of Army Enterprise IT investments needed to support all four MAs.
265   *d.* For the Army Enterprise IT PfM Process to be effective, it must be integrated with a solid
266   foundation that includes an Enterprise Architecture (EA) development and validation process.
267   The Army's PfM Process will capitalize upon the Army Enterprise Architecture (AEA) as well
268   as other existing architectures, such as the Business Enterprise Architecture (BEA) within the
269   Business Mission Area. The Army CIO/G-6 serves as the integrating office for all architecture
270   requirements, products, and solutions.
271   *e.* To support MAs/Domains PfM processes, the Army has multiple responsibilities that the
272   scope of this document covers:
273   (1) Implement the Army Enterprise PfM Process;
274   (2) Perform IT portfolio reviews and recommend initiative funding as part of the PfM
275   process;
276   (3) Develop MA/Domain Architectures in accordance with AEA guidelines;
277   (4) Enforce compliance with transformation plans; and
278   (5) Guide PfM execution activities.
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280   **Chapter 4**
281   **Army IT Portfolio Management (PfM) Process**
282
283   **4-1. The Army IT PfM Process**
284   *a.* The PfM methodology complies with the OMB's A-130 policy guidance and DoDD
285   8115.01 which require agencies to determine the following, before committing resources to any
286   existing or new capital asset:
287   (1) whether the asset supports core mission functions,
288   (2) whether any other government or private entity can provide the service better, and
289   (3) whether agency business processes have first been reengineered to provide optimal
290   performance at the lowest cost.
291   *b.* Figure 2 depicts the Army's IT PfM Process (as further defined in Appendix A) as
292   implemented by this document, which will include visibility of all MA and Domain IT
293   capabilities, initiatives, requirements, funding, and systems necessary to support joint
294   interoperability. It incorporates current Department of the Army, Department of Defense (DoD)
295   direction, guidance per the Clinger-Cohen Act (CCA) of 1996 and relevant National Defense
296   Authorization Act (NDAA) direction. Six core continuous PfM activities/phases are used to

297 manage the portfolios and are an integral part of the PfM Process. Details on each step under the
298 six core PfM activities/phases can be found in Appendix A.
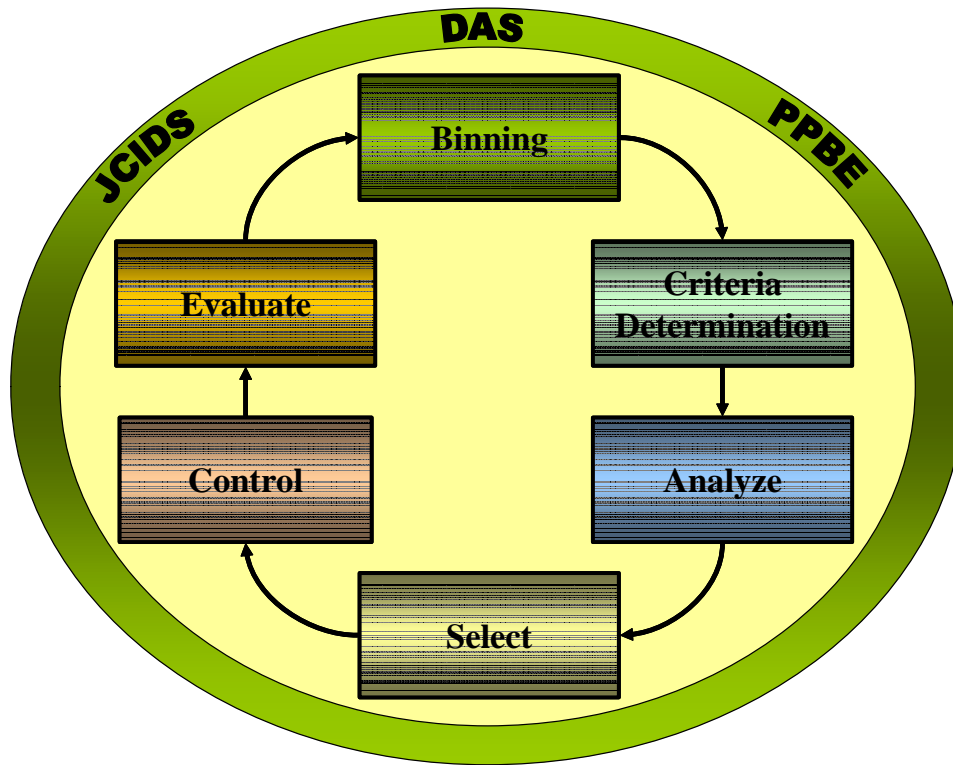299
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Portfolio Management Process

Figure 2 – Portfolio Management Process

325   (1) ***Binning*** is the activity that assigns capabilities/investments to the governing Army IT
326 MA/Domains. IT Domain binning will be synchronized with other DoD/Army processes.
327   (2) ***Criteria Determination*** is the activity that defines portfolio goals, assessment metrics,
328 and risk assessment criteria used to analyze Army IT investments. Criteria determination is
329 typically covered as part of the analyze activity; however it is addressed separately here to
330 highlight its importance.
331   (3) ***Analyze*** is the activity that builds on requirements for analysis of existing IT
332 capabilities and alternatives. This activity links portfolio objectives to Enterprise vision,
333 mission, goals, objectives, and priorities; develops quantifiable outcome-based performance
334 measures; identifies capability gaps, opportunities, and redundancies; identifies risks; provides
335 for continuous process improvement; and determines strategic direction of selected MA.
336   (4) ***Select*** is the activity that identifies and selects the best mix of IT investments to
337 strengthen and achieve capability goals, mission outcomes and objectives for the portfolio and
338 demonstrates the impact of alternative IT investment strategies and funding levels.
339   (5) ***Control*** is the activity that ensures a portfolio and individual IT investments within the
340 portfolio are managed and monitored using established quantifiable outcome-based performance
341 measures; provide intended capabilities; and are acquired within cost, schedule, and performance

342 baselines. Portfolios are monitored and evaluated against portfolio performance measures to
343 determine whether to recommend continuation, modification, or termination of individual
344 investments within the portfolio.
345   (6) ***Evaluate*** is the activity that measures actual contributions of the portfolio and its
346 identified capabilities and IT investments against established outcome-based performance
347 measures to determine improved capability as well as to support adjustments to the mix of
348 portfolio investments, as necessary.
349   *c.* The IT PfM Process will identify capability gaps and redundancies, which are then fed to
350 the JCIDS, DoD 5000, and/or PPBE processes for appropriate action.
351   *d.* The Army will support the PfM Process with tools provided by the Army Portfolio
352 Management Solution (APMS) consisting of the Army IT Registry (APMS-AITR) module,
353 Domain Certification (APMS-DC) module, Capital Planning and Investment Management
354 (APMS-CPIM) module, and Capital Planning and Investment Control (APMS-CPIC) module.
355 APMS empowers users at all levels within the enterprise and standardizes common data
356 elements used in IT PfM. APMS standardizes reporting procedures for IT investments, allowing
357 MA/Domain Leads to manage their portfolios and align capabilities with MA and Domain
358 investment strategies.
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360 **4-2. Army IT PfM Review Process**
361   *a.* The following activities are required to perform Enterprise Level Portfolio Reviews. (See
362 Figure 3)
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364 # Army IT PfM Review Process
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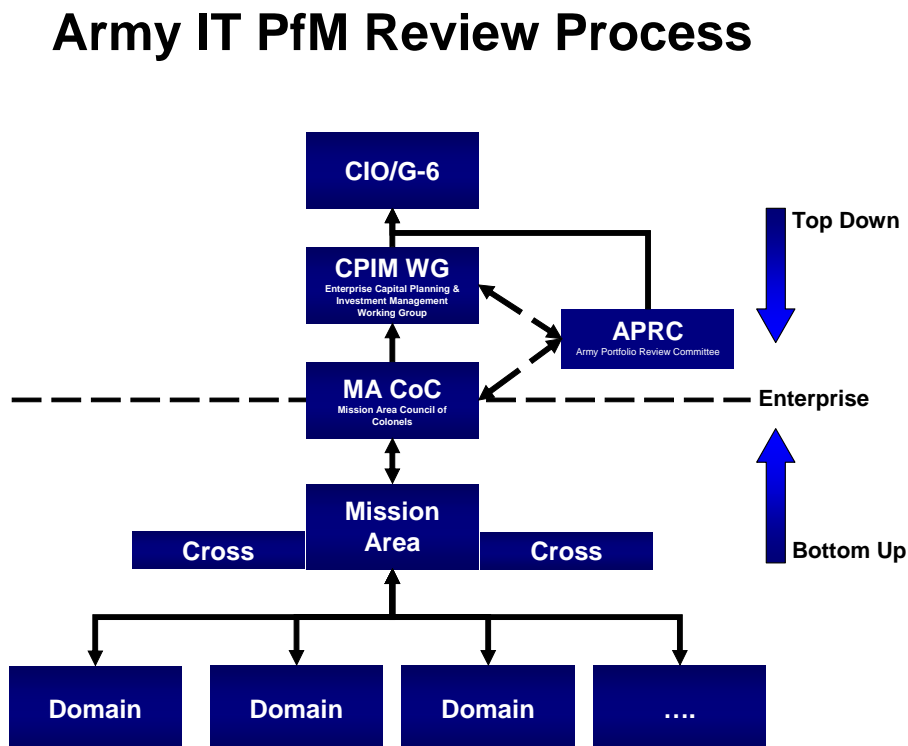384   **Figure 3 – Army IT PfM Review Process**
385   (1) MAs/Domains create internal governance forums, at their level, to review and assess
386 their respective IT portfolios and conduct internal portfolio reviews.

387   (2) MAs/Domains participate in annual preliminary Enterprise Level MA/Domain
388 Reviews conducted by the Mission Area Council of Colonels (MA CoC).
389   (3) Using the output from these reviews, the Enterprise CPIM Working Group (CPIM
390 WG) conducts review and analysis of MA IT capabilities and requirements to gain cross MA
391 efficiencies and to prioritize the Army IT investment strategy. The CPIM Process validates MA
392 strategies and prepares a consolidated IT Investment Strategy for use in the POM process,
393 providing both to the appropriate PPBE Review Board.
394   (4) The Army Portfolio Review Committee (APRC) will meet as required, conduct the
395 final Enterprise Level MA/Domain Portfolio Reviews, resolve cross-MA issues, and forward
396 Portfolio Review results/recommendations to the CIO/G-6.
397   *b.* **Mission Area Council of Colonels (MA CoC)**
398   (1) The MA CoC (see Figure 4) is quad-chaired by COL/GS-15 level representation from
399 G-3/5/7, Assistant Secretary of the Army (Financial Management and Comptroller)
400 (ASA(FM&C)), G-8 and the Chief Information Officer/G-6 (CIO/G-6). The MA CoC will have
401 representation from the Business, Warfighting, EIE, and Defense Intelligence MAs, Office of
402 General Counsel (OGC), the Army Audit Agency (AAA), Special Assistant Secretary of the
403 Army - Business Transformation (SASA-BT), Army Staff (ARSTAFF), Major Commands
404 (MACOMs), Assistant Secretary of the Army (Acquisition, Logistics, & Technology)
405 (ASA(AL&T)), and the Domains as appropriate.
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Figure 4 – Mission Area Council of Colonels

424   (2) The MA CoC will review, analyze, and validate the MA/Domain IT portfolios
425 capabilities against Army strategies and tactical requirements.
426   (3) The MA CoC will review and analyze the products from the preliminary MA/Domain
427 Portfolio Reviews, verifying identified gaps and overlaps, validating the MA transition planning
428 and cross MA efficiencies by:
429   (a) Conducting MA/system portfolio reviews in alignment with IT requirements and
430 capabilities

431   (b) Validating internal MA IT investments (consolidations/eliminations) IAW MA
432 Strategy.
433   (c) Validating MA compliance and certification requirements.
434   (d) Validating MA investments/capabilities and strategy, influencing and supporting
435 the Enterprise CPIM WG/PPBE Reviews.
436   *c.* **Enterprise Capital Planning & Investment Management Working Group (CPIM WG)**
437   (1) The CPIM WG captures the products of the MA CoC to review the results for the
438 Enterprise/Cross-MA level to identify potential redundancies/inefficiencies and best practices for
439 application across the Enterprise. The CPIM WG traces each potential IT investment/capability
440 to the actual or proposed funding source (depending upon current or future investment). An
441 analysis of how each IT investment/capability contributes to Army strategic direction and
442 priorities allowing prioritization of the IT investments by Management Decision Evaluation
443 Package (MDEP) within the funding PEG, in support of the PPBE process and Army Enterprise
444 Strategy.
445   (2) The CPIM WG (see Figure 3) will:
446   (a) Verify that MA/Domain/Functional requirements and IT capabilities have been
447 identified and documented against Army Strategy
448   (b) Analyze IT funding requirements for cross-MA efficiencies
449   (c) Evaluate each proposed IT investment against common evaluative criteria to
450 determine contribution to achievement of Army priorities
451   (d) Prioritize IT investments in support of the PPBE process based upon Army
452 strategic direction and the CIO/G6 enterprise objectives in support of the Army Enterprise.
453   (3) In accordance with the CPIM Charter, the CPIM WG is a collaborative effort
454 comprised of the Army's multi-functional community of C4/IT stakeholders, who collectively
455 determine the Army's "best value" investment solutions to meet the required capabilities. To
456 accomplish this, the CIO/G-6 depends heavily upon subject matter experts (SMEs). Each MA
457 and Domain will have a CPIM WG representative.
458   (4) Common evaluative criteria are used to subjectively evaluate proposed IT investments.
459 This subjective evaluation, supported by APMS, provides an initial investment prioritization,
460 which is then reviewed for evolving direction and priorities.
461   (5) The CPIM developed Army IT Investment strategy is reviewed by the Army CIO/G6
462 in accordance with Clinger-Cohen responsibilities, and once codified, furnished to the PEGs for
463 their use in the PPBE process.
464   (6) To this end the CPIM program provides critical IT investment recommendations to
465 integrate with the JCIDS, PPBE, and DAS.
466   *d.* **Army Portfolio Review Committee (APRC)**
467   (1) The APRC Quad-Chair (see Figure 5) is composed of the Deputy Assistant Chief of
468 Staff G-3/5/7, the Deputy Assistant Secretary of the Army (Financial Management and
469 Comptroller) (ASA(FM&C)), the Deputy Assistant Chief of Staff G-8 and the Deputy Chief
470 Information Officer/G-6 (CIO/G-6). The APRC PfM Review meetings will have potential
471 GO/SES level attendees with representation from Assistant Secretary of the Army (Acquisition,
472 Logistics, & Technology) (ASA(AL&T)), Office of General Counsel (OGC), the Army Audit
473 Agency (AAA), Business, Warfighting, EIE, and Defense Intelligence MAs, Assistant Secretary
474 of the Army (Financial Management and Comptroller) (ASA(FM&C)), G-8, Special Assistant
475 Secretary of the Army - Business Transformation (SASA-BT), G-4, and the other Domains
476 within the same MA under review.
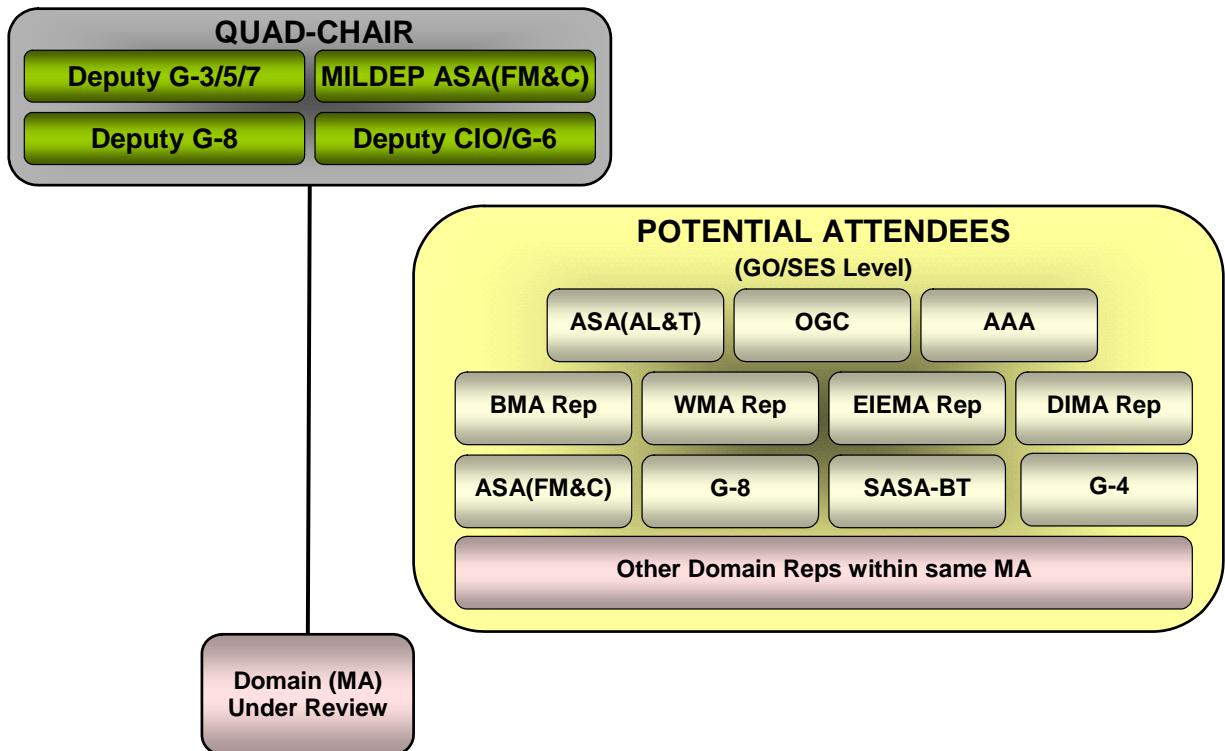
Army Portfolio Review Committee

Figure 5 – Army IT PfM Review Process

e. **Army's PfM Reviews**

(1) Starting in FY2006 the APRC will conduct annual Enterprise Level MA/Domain PfM Reviews, utilizing the APMS - Portfolio Management Decision Support Tool. The IT Portfolio Reviews will include the following MAs:

      (a) Enterprise Information Environment Mission Area (EIEMA)

      (b) Business Mission Area (BMA)

      (c) Warfighting Mission Area (WMA)

      (d) Defense Intelligence Mission Area (DIMA)

(2) For the reviews, the MAs will provide the following information at a minimum but not limited to:

      (a) Provide Mission Area Vision, Capabilities, and Governance Processes

      (b) Provide status of systems by Domain

        (i) Identify IT investments/capabilities as Core / Interim / Legacy

        (ii) Ensure IT investments/capabilities are registered in the Army and DoD repositories. Failure to register IT investments/capabilities in the appropriate repositories will place funding at risk

      (c) Provide a plan for reducing redundant and stove-piped IT investments/capabilities by 80% by the end of Fiscal Year 2007

      (d) Utilize the Army Portfolio Management Solution (APMS) as the primary portfolio management decision support tool

524   (e) As appropriate, verify that the portfolio complies with integration/interoperability
525 testing and configuration management of IT investment/capabilities at the Central Technical
526 Support Facility (CTSF)
527   (f) Ensure the development and utilization of MA/Domain architecture products with
528 the Army Chief Architect.
529   (g) Promote DoD and Army guidance for Net-Centric data strategy (DoDD 8320.2 –
530 Data Sharing in a Net-Centric Department of Defense, AR25-1). As required, participate in or
531 establish Communities of Interest (COIs) to develop and implement DoD and Army data
532 strategies.
533   (3) To the maximum extent possible, MA/Domain Portfolio Reviews will utilize APMS.
534 More detailed guidance on review format is provided in Appendix B.
535   *f.* **CIO/G-6** - The CIO/G-6 receives and reviews products from the both CPIM WG and APRC
536 and complies with Clinger-Cohen responsibilities. The CIO/G-6 provides a prioritized listing of
537 all IT investments, by MDEP to the PEGs. These products will be used by the PEGs for budget
538 deliberations within the PBBE process. The results of the IT PfM reviews will also provide
539 information that can be used for updating Army strategic documents including: The Army Plan,
540 the Army Program Guidance Memorandum, and the Army Campaign Plan.
541
542 # Chapter 5
543 # Responsibilities
544
545 **5-1. Governance**
546 This section defines the responsibilities required to execute Army PfM.
547   *a.* **Mission Area Leads (Specific)**
548   (1) The DUSA, or his designated representative, as the Army's BMA Lead will ensure
549 generating force efforts are traceable to, and fully support, the required capabilities for the
550 WMA, DIMA, and EIEMA. Additionally, this MA Lead will ensure that a single integrated
551 Architecture for the BMA efforts exists to support the Business Enterprise Architecture (BEA).
552   (2) The Chief Information Officer/G-6, as the Army's EIEMA Lead, will ensure EIE
553 efforts are traceable to, and fully enable, the required capabilities for the WMA, DIMA and
554 BMA. In addition, this MA Lead will provide Domain leadership for the Net-Centric Domain.
555   (3) The Deputy Chief of Staff, G-3/5/7, as the Army's WMA Lead, will approve,
556 prioritize, and synchronize all GIG capabilities, experimentation, concepts, and architecture
557 development efforts for the WMA.
558   (4) The Deputy Chief of Staff, G-2, as the Army's DIMA and National Intelligence
559 Technology Infrastructure Mission Area (NITMA) Lead, will ensure that intelligence efforts are
560 traceable to, and fully support, the required capabilities for the WMA and EIEMA. Additionally,
561 this MA Lead will ensure that a single integrated architecture for the National Geospatial-
562 Intelligence Agency efforts exists to support the Battlespace Awareness Domain of the WMA.
563   *b.* **Mission Area Leads (General)**
564   (1) Establish MA IT PfM direction and plans for MA GIG capabilities, Enterprise
565 solutions, experimentation, concepts, and operational architecture development efforts.
566   (2) Ensure the development and utilization of MA/Domain architecture products with the
567 Army Chief Architect.
568   (3) Identify Domain Leads and ensure linkages to existing DoD Domains, in coordination
569 with their DoD MA and Domain Leads and their Army counterparts.

570   (4) Provide an MA IT PfM Plan that considers end-to-end (E2E) processes IAW DoD and
571 Army Guidance.
572   (5) Establish key metrics, timelines, and milestones to track IT Transformation.
573   (6) Require internal MA portfolio reviews to be conducted for each subordinate Domain
574   (7) Verify identified funding through appropriate channels.
575   (8) In coordination with CIO/G-6, develop outcome-oriented performance measures that
576 are aligned with strategic guidance from the President, SECDEF, SA, and MA strategic goals
577 and objectives.
578   (9) Include the G-3/5/7 and the G-8 in portfolio reviews to ensure IT
579 capabilities/initiatives prioritization and funding are addressed.
580   (10) Provide an outline of their MA unique PfM plans and processes in their respective
581 appendix of this guidance.
582 *c.* **Domain Leads**
583   (1) IAW MA guidance, establish Domain IT PfM plans and processes.
584   (2) Establish and validate Domain level IT investment baseline against Domain designated
585 portfolios.
586   (3) Support architecture development in accordance with Appendix D and any other
587 applicable guidance.
588   (4) Utilize the APMS – IT portfolio management decision support tool for conducting
589 Domain IT PfM activities and determining within Domains where capability redundancies/gaps
590 exist and where integration of products and services might better support warfighter needs. The
591 APMS will be used to conduct regularly scheduled PfM Reviews.
592   *(a)* Develop and maintain a Domain IT Portfolio of systems by capability.
593   *(b)* Identify and prioritize investments to satisfy Domain IT capabilities.
594   (5) Recommend opportunities for cross Domain integration to continually improve
595 delivery of IT-based capabilities in support of warfighter needs.
596   (6) Utilize existing Army processes (JCIDS, PPBE, and DAS) to prioritize, synchronize
597 and fund opportunities identified by PfM processes.
598   (7) As required, review a business case analysis for those planned IT expenditures that
599 have enhancements of more than $1M across the Future Year Defense Program (FYDP).
600   (8) Evaluate all Domain and sub Domain proposed IT Portfolio investments based on:
601   *(a)* Capability provided
602   *(b)* Architecture products
603   *(c)* Criticality to Mission
604   *(d)* Interoperability
605   *(e)* Risk
606   *(f)* Strategic Alignment
607   *(g)* Performance Metrics
608   *(h)* Program resources/costs
609   (9) Ensure all Domain IT investment reviews focus on capabilities, and include the full life
610 cycle costs of IT expenditures.
611   (10) Participate in enterprise governance forums, as required, to identify opportunities for
612 commonality in PfM techniques, and provide solutions that are in the best interest of the
613 Enterprise.

614   (11) Establish and utilize outcome-oriented IT performance measures that are aligned with
615   strategic guidance and the MA balanced scorecard in the Strategic Readiness System (SRS).
616   Progress will be reviewed and reported through the governance structure.
617   (12) Establish, in coordination with the MA, key metrics, timelines and milestones to track
618   IT Transformation.
619   (13) Coordinate, as required, with the G-3/5/7 and the G-8 to ensure issues of
620   portfolio/system prioritization and funding are addressed during portfolio reviews.
621   (14)   Develop IT investment strategies that are capabilities focused, and manage Domain
622   IT investments.
623   (15) Promote DoD and Army guidance for Net-Centric data strategy (DoDD 8320.2 –
624   Data Sharing in a Net-Centric Department of Defense, AR25-1). As required, participate in or
625   establish Communities of Interest (COIs) to develop and implement DoD and Army data
626   strategies.
627   *d.* **Army Portfolio Review Committee (APRC)**
628   (1) Conduct Enterprise Level Domain IT PfM Reviews
629   (2) Adjudicate cross-MA issues.
630   (3) Validate internal Domain IT investments
631   (4) Validate Domain compliance and certification requirements funding to DoD
632   (5) Validate IT investments/capabilities and strategy influencing and supporting Enterprise
633   CPIM Working Group/PPBE Reviews
634   (6) Provide recommendations to the CPIM WG on IT investments
635   (7) Approve MA Portfolio Binning lists
636   (8) Review and approve MA/Domain metrics.
637   *e.* **Capital Planning & Investment Management Working Group (CPIM WG)**
638   (1) Verify that MA/Domain/Functional requirements and IT capabilities have been
639   identified and documented against Army Strategy
640   (2) Analyze IT funding requirements for cross-MA efficiencies
641   (3) Evaluate each proposed IT investment against common evaluative criteria to determine
642   contribution to achievement of Army priorities
643   (4) Prioritize IT investments in support of the PPBE process based upon Army strategic
644   direction and the CIO/G6 enterprise objectives in support of the Army Enterprise.
645   *f.* **Deputy Under Secretary of the Army Operations Research (DUSA(OR))**
646   (1) Assist, as required, the MA/Domains in the development of their metrics.
647   (2) Assist the MA/Domains in their Analyze and Select Phase processes.
648   (3) Integrate information requirements into APMS to support IT investment decision
649   processes.
650   *g.* **ASA(AL&T)**
651   (1) Ensure Program Executive Officers (PEOs)/Program Managers (PMs) input data into
652   the APMS to support MA/Domains IAW this document.
653   (2) Ensure PEOs/PMs participation in the MA/Domain IT PfM processes.
654   (3) Provide System Architectures in support of Army IT PfM.
655   *h.* **G3/5/7**
656   (1) Serve as the ARSTAFF focal point for organization, integration, decision-making, and
657   execution of the spectrum of activities encompassing requirements definition, force
658   development, force integration, force structuring, combat developments, training developments,
659   resourcing, and prioritization.

660   (2) Serve as the focal point for prioritization, integration, and synchronization of
661 capabilities and requirements made both on the ARSTAFF and externally.
662   (3) Serve as the overall integrator of Army transformation.
663   (4) Serve as the Chief Architect of the Army in support of PfM.
664   *i. G8*
665   (1) Manage the programming phase of the Army PPBE to facilitate the development of the
666 Army program and the transition to an Army Budget Estimate Submission (BES).
667   (2) Responsible for transitioning approved Army requirements from the planning to the
668 programming phase.
669   (3) Responsible as principal advisor to the CSA on Joint materiel requirements, doctrine,
670 training, leader development, organizations, and materiel - personnel and facilities (DTLOM-PF)
671 integration, and materiel program execution over their life cycles.
672   (4) Assist Domains with their PfM processes (Directorate of Materiel (DOM)).
673   (5) Provide guidance on appropriate documentation required to support PPBE activities.
674   *j. CIO/G-6*
675   (1) Serve as the APRC and Senior Review Group (SRG) Executive Secretary.
676   (2) Provide IT PfM policy guidance and oversee implementation of MA / Domain's IT
677 portfolios to ensure they are aligned with Army Enterprise Solutions.
678   (3) Serve as the single Army interface with the Office of the Secretary of Defense (OSD)
679 Transformation Support Office (TSO), OSD Domain Leads, OSD MA Leads, Army MA Leads,
680 Army Domain Leads, and the Army Functional Domain Leads for all IT related data calls and
681 other IT MA requirements.
682   (4) Serve as the Pre-Certification Authority (PCA) for OSD Certification Reviews (for
683 example, BMMP Certifications).
684   (5) Support Net-Centric Data Strategy.
685   (6) Serve as the Army Lead/coordination authority for all GIG ES IT related actions.
686   (7) Review and revise the current process for maximizing the value, and assessing and
687 managing the risks of Army IT investments across the Enterprise, ensuring consistency with
688 evolving DoD policy.
689   (8) Review and revise the Army IT PfM Process IAW evolving DoD guidance/policy,
690 fully incorporating the DoD MA/Domain construct and the necessary program review
691 requirements. Ensure PfM processes are incorporated into, and integrated with, each of the
692 principal decision support systems: JCIDS, PPBE, and the DAS.
693   (9) Establish enterprise level performance measures as an integral component of the
694 transformation strategy, aligned with mission, vision, goals and objectives. The CIO/G-6 will
695 provide core criteria and metrics to track and measure capabilities provided by IT investments
696 against the established performance criteria embedded in the SRS.
697   (10) Maintain the APMS-AITR module as the official Army inventory of IT
698 capabilities/initiatives, and investigate potential alternatives for a database that can integrate and
699 enhance support to the portfolio management process.
700   (11) In conjunction with the Assistant Secretary of Defense (Networks and Information
701 Integration) (ASD (NII)), integrate the architectures that support enterprise IT solutions.
702   (12) Provide Technical Architectures to the Army IT PfM Process.
703   (13) Provide Departmental level policy, guidance, and direction in the definition, design,
704 implementation, and integration of enterprise solutions and business process improvements
705 across the Army and between the DoD, the Army, and other external organizations.

706   (14) Serve as the facilitator for the IT Investment Strategy for the PPBE Review Boards
707 promoting IT integration across MAs.
708   (15) Provide feedback to MA/Domains on lessons learned and best business practices on
709 IT PfM.
710   (16) Provide a prioritized listing of all IT investments, by MDEP to the PEGs.
711   **k. Central Technical Support Facility (CTSF)**
712   (1) Provide, as appropriate, testing resources IAW the DoD Instruction 4630.8 Para 4., and
713 Army policy.
714   (2) Serve as the facility that offers systems interoperability, integration testing,
715 configuration management and field engineering to Army Program Managers and System
716 Developers.
717   **l. Planning, Programming and Budgeting Committee (PPBC)**
718   (1) The final authoritative body for resolution of cross-MA PfM issues. The Senior
719 Review Group (SRG) serves as the overarching governance body for integration decisions
720 between GIG ES MA, pertaining to IT Portfolio Investments. SRG responsibilities include:
721   *(a)* Resolving resource allocations and other issues;
722   *(b)* Monitoring staff implementation of decisions;
723   *(c)* Recommending prioritization of programs unresolved at lower levels; and
724   *(d)* Recommending resource alternatives.
725   **m. MACOMS (General)**
726   (1) Implement, as required, the IT PfM Process developed by DoD and the Army to define
727 and justify MACOM IT Portfolio capability-focused expenditures.
728   (2) Utilize the Army PfM tool to determine within MACOMS where capability
729 redundancies exist and where integration of products and services might better support
730 warfighter needs.
731   (3) Ensure IT capabilities/initiatives are registered in the APMS-AITR module.
732   (4) Establish and utilize outcome-oriented IT performance measures, (in cooperation with
733 Army Domains), that are aligned with Army Domain strategic guidance.
734   (5) Ensure MACOM portfolios of capabilities are congruent with applicable MA and
735 Domain strategic plans and portfolios.
736   **n. MACOMS (Specific)**
737   (1) TRADOC, as the Army's combat developer with responsibility to validate
738 requirements with any warfighting impact and to assist DA to prioritize and justify warfighting
739 requirements, assist MA/Domains in the Binning, Criteria Determination, Analyze, Select, and
740 Evaluate Phases of the Army IT PfM Process.
741   (2) TRADOC develop and enforce Operational Architectures for systems and systems of
742 systems, to support Army IT PfM.
743   **o. System Owners/Program Managers (SOs/PMs)**
744   (1) Ensure all IT investments are entered in APMS and records are accurate and current in
745 mandatory DoD level and other Army repositories as required by policy.
746   (2) Maintain System Architectures that are compliant with Army Enterprise Architecture
747 (AEA), MA, Domain and other DoD/Joint architectures and policies as appropriate.
748   (3) Assure compliance with OSD Certification processes through HQDA, CIO/G6 (e.g.
749 Applying to the IRB and DBSMC, via the appropriate headquarters level authority, for system
750 review and certification before obligating development/modernization funds over $1,000,000 for
751 business information systems over the FYDP subject to NDAA required OSD Certification.)

752   (4) Ensure portfolios of IT capabilities are congruent with applicable MA and Domain
753 strategic plans and portfolios.
754   (5) Ensure applicable testing requirements are satisfied and reported into APMS.
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757 **Chapter 6**
758 **Summary**
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760 Management of the Army's IT investments/capabilities as portfolios, capitalizing upon best
761 practices, emerging technology and common solutions is essential to the Army's
762 transformational efforts. As the Army transforms, it is imperative that IT investment portfolios
763 support the Army's Mission, Vision, and Strategic Goals; ensure an efficient delivery of
764 capabilities to the Warfighter; and maximize return on investment to the enterprise. At the
765 Enterprise level, management of IT portfolios begins with MAs and Domains aligning functional
766 requirements and capabilities with IT solutions. This will enable the Army to increase
767 efficiency/effectiveness through the elimination/consolidation of redundant or outdated
768 capabilities, and provide increased technical performance. IT Investments must be analyzed and
769 prioritized to maximize strategic alignment and support to the WarFighter.
770

771 **Appendix A**
772 **Expanded Army IT PfM Process and Responsibilities**
773
774 **A-1. Introduction**
775   *a.* The Army Chief Information Officer (CIO/G6), in coordination with Army Mission Area
776 (MA) and Domain leads, is responsible for developing a formal, structured, repeatable Portfolio
777 Management (PfM) process for Army systems. To facilitate this effort, this document has been
778 designed to articulate the roles, processes, and information needed to determine and continuously
779 adjust the optimum set of Army capabilities needed to support the Business, Warfighter,
780 Enterprise Information Environment (EIE) and Defense Intelligence Mission Areas.
781   *b.* For any PfM process to be effective, it must rest upon a solid architecture. The Army
782 Architecture Integration Cell (AAIC) serves as the integrating office for the Army Architecture.
783 Management and oversight of the Army Architecture is the responsibility of the Army CIO/G6
784 AAIC in conjunction with the G-3/5/7, Chief Architect.
785   *c.* This appendix describes the Army IT PfM Process, interfaces, and dependencies between
786 the MA and Domain Leads and the linkages to the overarching business processes (JCIDS,
787 PPBE, DAS).
788   *d.* MA/Domain owners were assigned by the Secretary of the Army (SA) and are identified in
789 Figure 1. MA/Domain Leads are those entities that have been assigned by the owners to fulfill
790 the responsibilities described in this document.
791
792 **A-2. Objectives**
793   *a.* The objectives of this effort are to define and implement an Army IT PfM process that is
794 repeatable, and produces reliable results. Successful implementation of this process should
795 result in the following outcomes:
796   (1) Ensure the warfighting force has the best IT capabilities to perform its missions and
797 conduct effective information operations, eliminate outdated ways of doing business and achieve
798 net-centricity goals.
799   (2) Improve warfighting effectiveness by approaching IT investments/capabilities as a
800 portfolio to minimize risk by balancing opportunity with sound investment strategy within the
801 joint warfighting environment.
802   (3) Ensure optimal IT implementation to satisfy Domain owner/MA/DA/ASA validated
803 capabilities and mission outcomes.
804   (4) Implement and integrate Army IT PfM processes and recommendations into the
805 JCIDS, DAS and the PPBE processes. Those IT investments that fall below the threshold of
806 these processes will still be incorporated in the IT PfM Evaluation process.
807   (5) Ensure generating force efforts are traceable to, and fully support, the required IT
808 capabilities for DoD Warfighting, Intelligence, and EIE Mission Areas.
809   (6) Reduce IT capabilities/systems duplication and gaps.
810   (7) Develop and maintain the Army IT capabilities portfolio to include systems, programs,
811 and initiatives.
812   (8) Ensure portfolios of MA/Domain related systems are rationalized against IT
813 capabilities needed to support the warfighter;
814   (9) Provide a process that looks across the enterprise to effectively influence investment
815 decisions across the MA/Domain Portfolios; and

816   (10) Ensure a MA/Domain Portfolio that supports information interoperability and
817 enterprise integration among MA/Domain related systems.
818
819 **A-3. Army IT Portfolio Management (PfM) Process**
820   *a.* **Process Overview** Figure A-1 shows an overview of the PfM Process that consists of
821 Binning, Criteria Determination, Analyze, Select, Control, and Evaluate Phases as outlined in
822 DODD 8115.01. The IT PfM Process will result in recommendations to influence JCIDS, the
823 DAS, and the PPBE processes.
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825 # Portfolio Management Process
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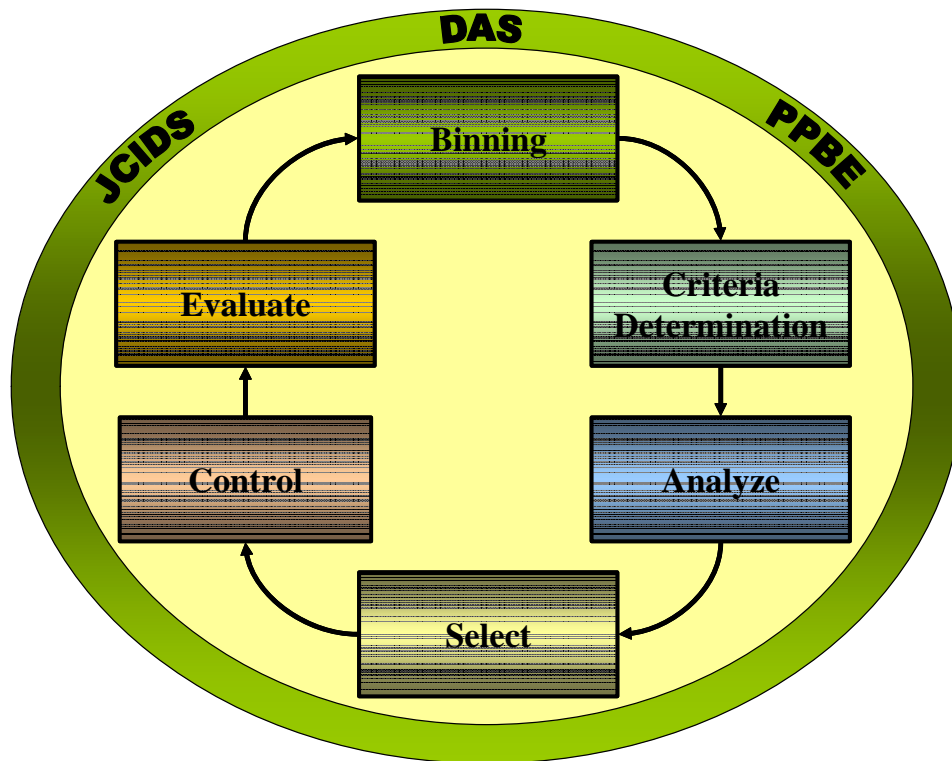843
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848   **Figure A-1 – Portfolio Management Process**
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850   *b.* A general description of the process' six activities/phases follows with a detailed task break
851 down for each phase. The phases are:
852   (1) **Binning**. Assign specific capabilities and IT investments to the governing Army IT
853 MA/Domains and collect investment information. IT Domain binning will be synchronized with
854 the Army JCIDS Gatekeeper function.
855   (2) **Criteria Determination**. Identify portfolio goals, assessment metrics, and risk
856 assessment criteria used to analyze Army IT investments. Criteria determination is typically
857 covered as part of the analyze activity, however it is addressed separately here to highlight its
858 importance.
859   (3) **Analyze**. Assess and prioritize IT investments against Army MA/Domain criteria.
860 Link portfolio objectives to Enterprise vision, mission, goals, objectives, and priorities; develop

861 quantifiable outcome-based performance measures; identify capability gaps, opportunities, and
862 redundancies; identify risks; and provide for continuous process improvement.
863   (4) **Select**. Determine the optimum investment baseline across each Army Domain, MA,
864 cross-MA and propose IT investment baseline changes, including capability identification,
865 acquisition, and funding issues. Identify and select the best mix of IT investments to strengthen
866 and achieve capability goals and objectives for the portfolio and demonstrate the impact of
867 alternative IT investment strategies and funding levels.
868   (5) **Control**. Ensure a portfolio is managed and monitored using established quantifiable
869 outcome-based performance measures. Portfolios are monitored and evaluated against portfolio
870 performance measures to determine whether to recommend continuation, modification, or
871 termination of individual investments within the portfolio. Forward MA recommendations to the
872 CPIM and Program Owner.
873   (6) **Evaluate**. Monitor and evaluate IT investment changes that affect the portfolio
874 baseline and appropriately update baseline. Evaluate measures actual contributions of the
875 portfolio against established outcome-based performance measures to determine improved IT
876 capabilities as well as to support adjustments to the mix of portfolio investments, as necessary.
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878 **A-4. Binning Phase**
879 Figure A-2 illustrates the Binning Phase. This phase will identify recommended Army IT
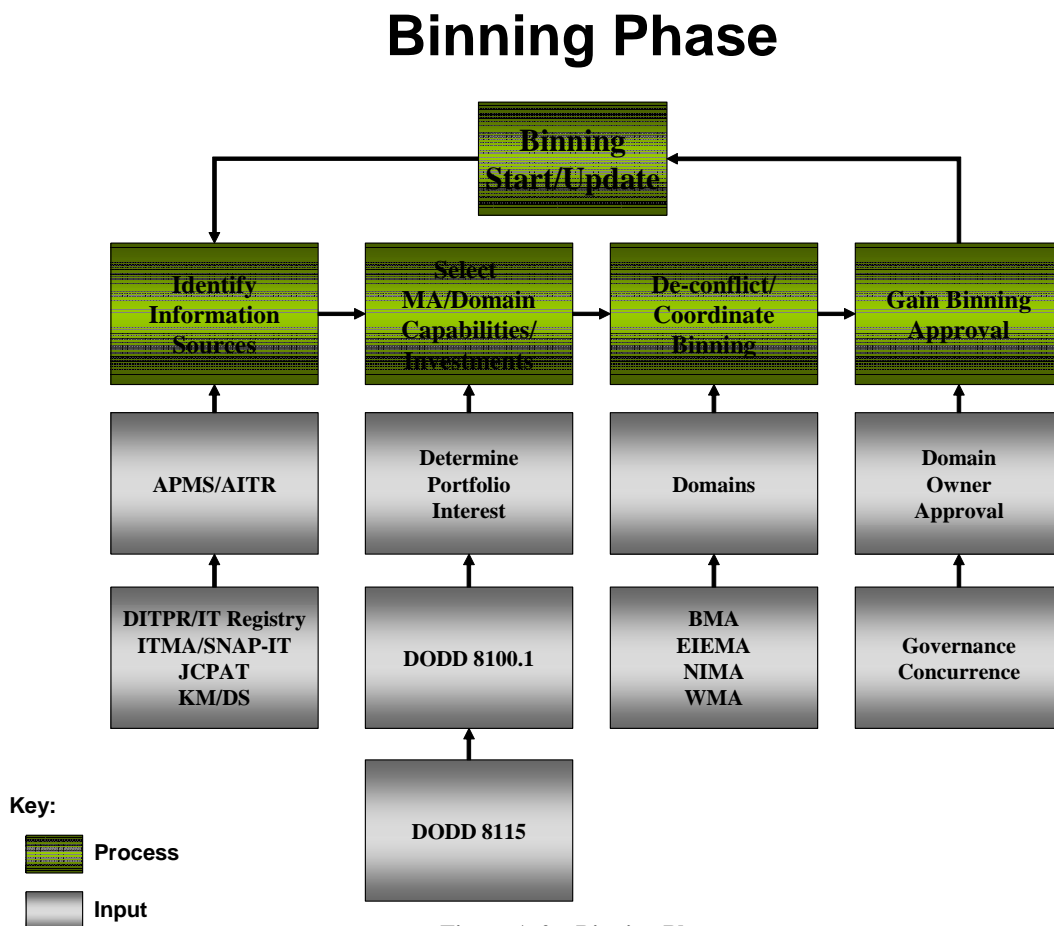880 capabilities/investments and the appropriate MA/Domain Ownership.
881
882 # Binning Phase

Figure A-2 – Binning Phase

907   *a.* **Identify Information Sources.** Domains will ensure that the system owners identify and
908   register all appropriate IT investments/capabilities in APMS. Failure of system owners to
909   register IT investments/capabilities in the appropriate repositories will place funding at risk and
910   may result in removal from Army networks..   Data calls will verify and provide information in
911   the APMS-AITR module.
912   *b.* **Select MA/Domain Investments.** The MA/Domain Leads will use the direction in DODD
913   8115.01, and this guidance, to align IT investments/capabilities to the appropriate Domains.
914   Programs will be added or removed as new IT capabilities are approved or terminated by the
915   appropriate authority.
916   *c.* **De-conflict/Coordinate Binning.** After the initial MA/Domain IT portfolio
917   recommendation is developed and Domain assigned, it must be de-conflicted with other MAs
918   and Domains. Each IT investment can be associated with a primary and secondary MAs and
919   Domains, but only one primary MA and Domain may exist for each investment. The Lead
920   Domain will coordinate with the other Domain and MA leads to deconflict assigned
921   MA/Domain. When necessary, the Lead Domain adjudicates among the Domain Owners
922   regarding MA/Domain issues. MA/Domain Owners will monitor and accept or reject requested
923   APMS Domain changes. The Domain Owners will coordinate binning and transfers of IT
924   investments between MAs and Domains.
925   *d.* **Mission Area and Domain Assignment Binning Approval.** The Domain Lead will
926   finalize a consolidated Domain IT portfolio binning list and will obtain approval from the
927   Domain Owner. The MA Lead will consolidate the approved Domain Portfolios and gain
928   approval from the MA Owner. Each MA will submit to the APRC their approved Portfolio
929   binning list for approval. Binning will be an iterative on-going process to account for IT
930   investments/capabilities.
931
932   **A-5. Criteria Determination Phase**
933   The MA/Domains/MACOMs will develop criteria to accomplish the IT PfM objectives in
934   paragraph A-2. Figure A-3 illustrates the Criteria Determination Phase. MA/Domains will
935   establish quantifiable outcome-based performance measures to provide intended IT capabilities.
936   Examples of Army IT Metrics are presented in Appendix C.
937   *a.* **Identify Strategic Objectives.** The MA/Domain will develop strategic IT portfolio
938   objectives. The strategic objectives will most likely be common across the MA/Domains.
939   Strategic objectives will incorporate input from the DoD and Army IT strategic plans, TAP,
940   other Strategic Guidance, the National Military Strategy, the Joint Capability Areas (JCAs) and
941   the Quadrennial Defense Review.   The MA/Domain objectives should be limited in scope to
942   apply specifically to IT investments within the context of the Army IT PfM for the joint
943   warfighting environment.
944   *b.* **Create Portfolio Goals.** DoD and Army strategic objectives are the baseline for
945   developing MA/Domain IT PfM objectives. MA/Domain Owners will develop specific goals to
946   select the best IT investment mix to achieve these objectives. The goals should address short
947   and long-term IT investments. The goals should implement ASD/DCIO direction to increase
948   and report on the use of commercial software and services (ASD/DCIO Memo, Accelerating the
949   use of IT/NSS Commercial Off the Shelf (COTS) Software and Services, 29 Sep 05). Portfolio
950   goals should be reviewed and updated at least annually. Again, the goals should link to the
951   approved JCAs and synchronized with the JCIDS/PPBE/DAS processes. They should also

952   reflect GIG integrated architecture goals. MA/Domain portfolio goals will be briefed to the
953   APRC as background and context for all IT investment recommendations.
954   *c.* **Establish Risk Criteria.** MAs will lead the Domain Owners in identifying criteria to
955   assess IT investment risk. Domain Owners may also develop specific Domain criteria that
956   reflect their individual Domain goals. Examples of risk criteria include program funding,
957   staffing available, technology risk, schedule, operational impact, IT investment scope,
958   organizational risk, compliance with GIG architecture standards, use of COTS software, and
959   dependencies on other IT investments. The Domain risk criteria should be coordinated with the
960   associated MA lead to ensure MA goals are accurately reflected in the criteria.
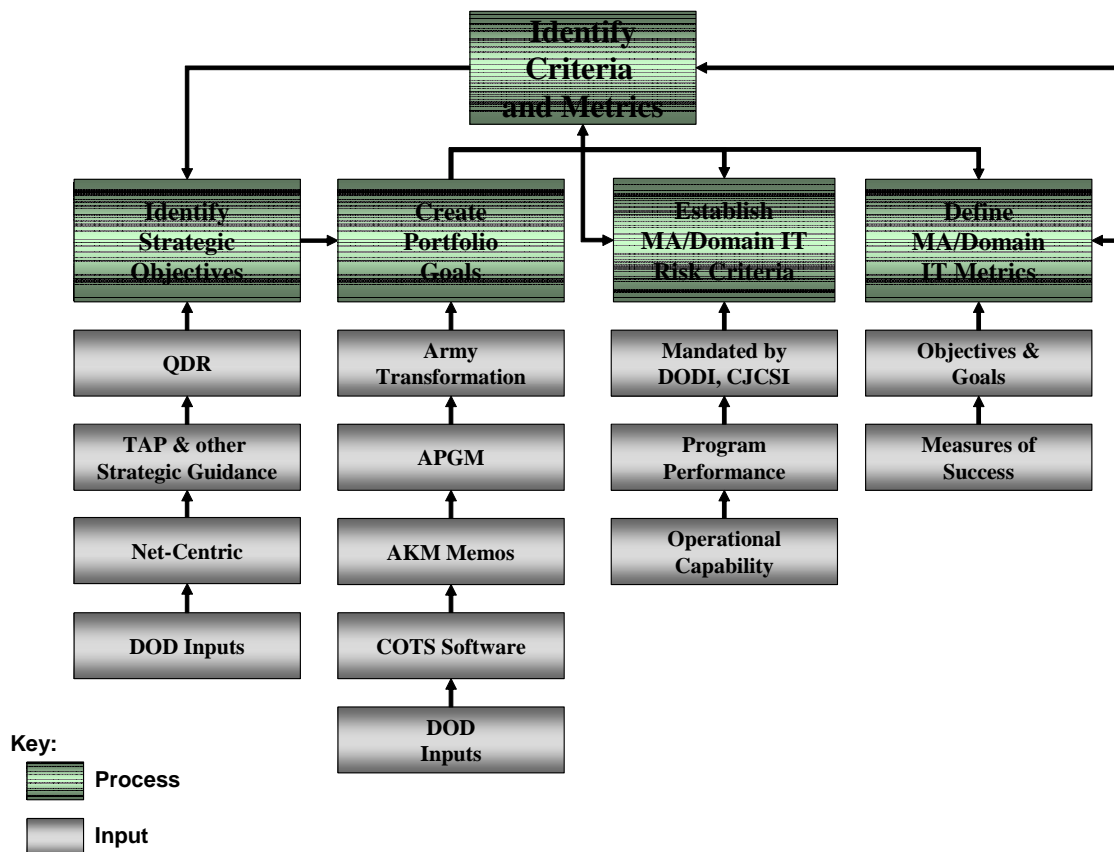
Criteria Determination Phase

Figure A-3 – Criteria Determination

988   *d.* **Define Metrics.** Metrics allow IT investments to be quantitatively and qualitatively
989   evaluated. Metrics can cover mandatory compliance areas, innovation and use of technology,
990   use of Net-Centric tenets, standards and interoperability compliance, mission accomplishment,
991   etc.   Some metrics can be collected from existing repositories such as Net-Centric reviews and
992   Information Support Plans. The MA will lead the Domain Owners in identifying metrics to
993   measure whether MA IT investments successfully meet their goals and objectives. A common
994   metrics set will be applied to all Domains IT investments; however, the Domain Owners may
995   develop metrics appropriate to their Domain. CIO/G-6 will develop a common set of metrics for
996   all MAs as indicated in Appendix C. As with the risk criteria, the metrics should be coordinated

997   with the associated MA lead to ensure MA goals are accurately reflected. The metrics should
998   also include the systems ability to comply with GIG integrated architecture standards.
999   *e.* IT PfM metrics and criteria will be annually reviewed and approved by the MA/Domains
1000 and the APRC.
1001
1002 **A-6. Capabilities and Investment Analysis Phases**
1003 The next step in the PfM Process is analyzing and prioritizing Army IT assets in relation to the
1004 criteria and metrics discussed above and the BMMP and JCA capabilities analysis results.
1005 Figure A-4 is the summary view of the JCIDS process and A-5 illustrate the MA/Domain
1006 Owner's Investment Analysis Phase.
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1009 # Capability Analysis Phase
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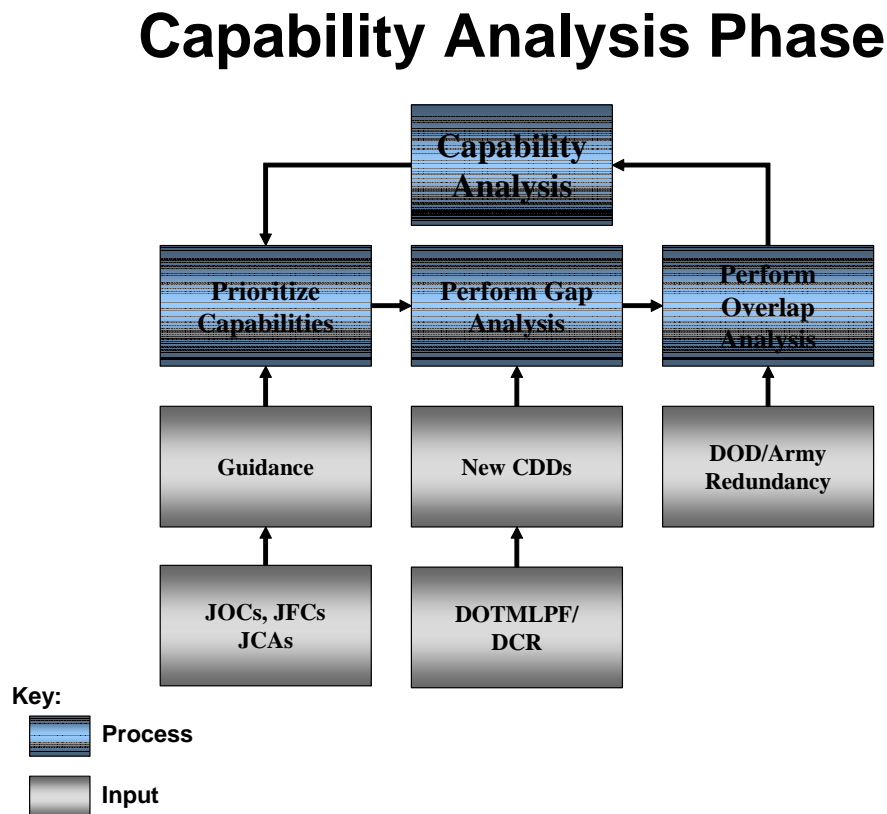1031   **Figure A-4 – Capability Analysis Phase**
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1033 MA/Domain Leads will use the JCIDS products (which are the outcome of the process described
1034 from Figure A-4) IAW CJCSI 3170.01E to ensure linkage of IT investments to capabilities as
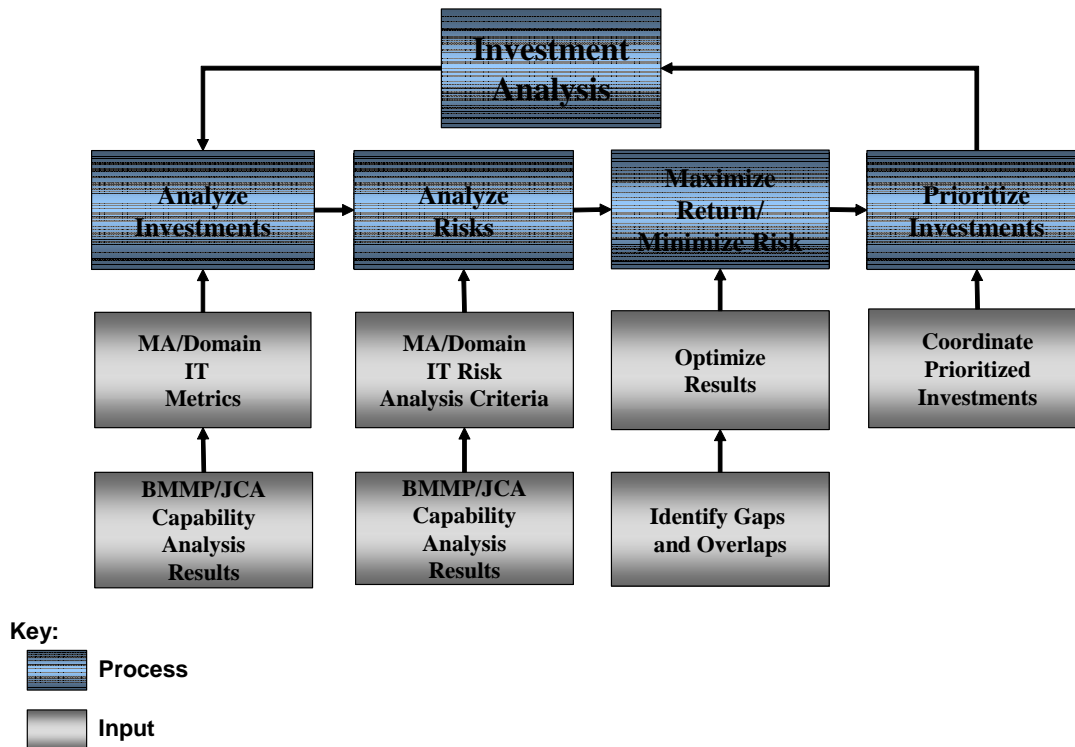1035 depicted in Figure A-5.
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Investment Analysis Phase

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Figure A-5 – Investment Analysis Phase

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1068   *a.* **Investment and Risk Analysis.** The goal of IT investment and risk analysis is to identify
1069 investment gaps and overlaps, to determine the optimum MA/Domain portfolio, and to maximize
1070 return on investments while minimizing portfolio risk. The MA/Domain Leads, in conjunction
1071 with the PEGs, TRADOC, G-8, and ASA(AL&T), will review each IT investment against the
1072 capabilities obtained from the capability analysis phase and known requirements. This will
1073 include a risk analysis based upon a set of defined criteria. The resulting outcome will be used
1074 to evaluate whether the investments are meeting their objectives, and at what level of risk.

1075   *b.* **Maximize Return/Minimize Risk.** Since the MA/Domain Owner's goal is to maximize
1076 return on IT investments while minimizing the overall risk of the portfolio, they must continually
1077 evolve their portfolio investment mix in a spiral methodology over time and analyze the portfolio
1078 based upon performance and cost metrics to optimize their IT investment portfolio.

1079   *c.* **Coordinating Recommended MA/Domain IT Priorities.** The MA/Domain Leads will
1080 coordinate their recommended portfolio priorities with stakeholders to include the G-3/5/7 and
1081 G-8 proponents as required.

1082   *d.* **Prioritized Investment Portfolio.** The final stage of the IT Investment Analysis phase is
1083 for the MA/Domain Owner to prioritize their investments. The resulting recommended
1084 prioritized IT investment portfolio will be used to select investments against available financial
1085 resources. The prioritized investment list will be used in the Investment Selection Phase.

1086

1087   **A-7. Investment Selection Phase**

1088   The Investment Selection Phase shown in Figure A-6 will use the prioritized analysis results to
1089   determine IT investment funding recommendations and prioritization.
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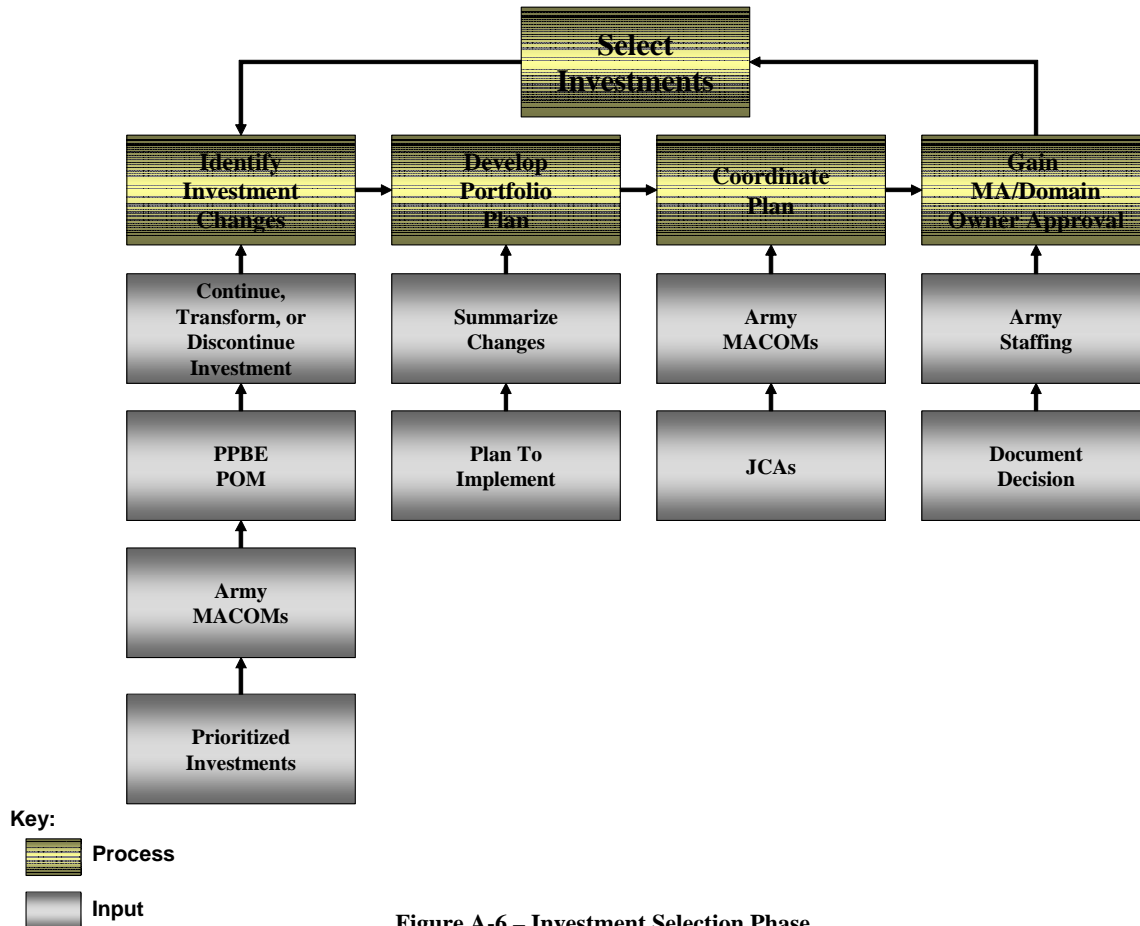1091   # Investment Selection Phase
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Figure A-6 – Investment Selection Phase

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1119   *a.* **Identify Investment Changes.** The MA/Domain Owner, working in collaboration with
1120   system proponents, will identify changes in potential IT investments to be considered in the
1121   PPBE process/Program Objective Memorandum (POM). System proponents should analyze
1122   recommended investment changes against available resources to acquire needed operational
1123   capability. Investments can be continued unchanged, modified, and transformed by combining
1124   or discontinuing investments. The recommended investment changes should reflect the analysis
1125   results discussed in Figure A-6.
1126   *b.* **Domain Disconnects.** If multiple Domains have interest in an IT investment, the primary
1127   Domain Lead assigned during binning will coordinate the recommended changes with secondary
1128   Domains. The primary Domain Lead is responsible for gaining consensus on the recommended
1129   change. When consensus cannot be reached, the Domain Lead will develop a recommended best
1130   course of action, noting dissenting comments, and forward the recommendation to the MA for
1131   resolution.
1132   *c.* **Develop Portfolio Plan.** Once IT investment changes are identified, a portfolio plan will
1133   be developed. The plan will list and summarize recommended changes to the portfolio baseline

1134   with appropriate rationale. Only the recommended changes need to be mentioned unless
1135   additional information will clarify the overall results. As required, the CIO/G-6 will provide a
1136   portfolio plan template to the MA/Domain Owners for use in reporting their investment selection
1137   results.
1138   *d.* **Coordinate Plan.** The MA/Domains will coordinate the portfolio plan with all
1139   stakeholders and other interested organizations for comment as required. When coordination is
1140   complete, the MA/Domain staff will adjudicate the comments and update the plan in preparation
1141   for MA/Domain Lead approval.
1142   *e.* **Domain Owner Approval.** When coordination is complete, the MA/Domain Owner will
1143   attain approval of the coordinated portfolio plan from Army Leadership as required. The
1144   approval will be documented in a memo and provided to CIO/G-6, ASA(AL&T), and PEG
1145   Executives. The MA/Domain Owner will also input the portfolio plan results into APMS.
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1147   **A-8. Investment Control Phase**
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Investment Control Phase

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Figure A-7 – Investment Control Phase

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1174   *a.* Figure A-7 illustrates the Investment Control Phase. The MA/Domain Owners will
1175   implement their portfolio plan to ensure the warfighting force has the best IT capabilities to
1176   perform its missions and conduct effective information operations, eliminate outdated ways of
1177   doing business and achieve net-centricity goals. Within the IT PfM Process, the MA/Domains
1178   will:

1179 (1) With the appropriate Army entities, represent the MA/Domain's IT capability and
1180 resource needs and priorities within the PPBE, DAS, and JCIDS processes.
1181 (2) In conjunction with G-3/5/7, CIO/G-6, G-8 and ASA(AL&T) processes, manage and
1182 routinely monitor the performance of all current and planned IT investments within the Domain.
1183 (3) Make recommendations through existing processes on which IT investments to retain,
1184 modify, terminate and initiate based on the GIG integrated architecture, MA goals, risk tolerance
1185 levels, potential returns and performance.
1186 *b.* By managing IT investments as portfolios, MA/Domain Owners should be able to ensure IT
1187 investments support the Army's vision, mission, and goals; to ensure efficient and effective
1188 delivery of capabilities to the warfighter; and to maximize return on investment to the Enterprise.
1189 This is the heart of the Army IT PfM Process.
1190 *c.* During the Control Phase, which is ongoing, program execution is monitored to ensure that
1191 approved mission benefits, cost, schedule, and performance baselines remain attainable. If these
1192 parameters are unable to be attained or are projected to be unacceptable within the approved
1193 program baseline, the IT investment/capability must be reevaluated under the Select Phase and
1194 established selection criteria. Accordingly, requirements, planning parameters, and resources
1195 should be realigned to revise the program baseline. MA and Domain Leads will:
1196 (1) **Monitor Investment/Capabilities Portfolio Baseline**
1197 *(a)* Establish and utilize outcome-oriented IT performance measures.
1198 *(b)* Ensure program information is entered, accurate and current in APMS.
1199 (2) **Assess Risk**
1200 *(a)* Review cost, performance & schedule
1201 *(b)* Utilize APMS tool to assist in determining where redundancies exist and where
1202 integration of products and services might better support warfighter needs.
1203 *(c)* Utilize data from on-going Army program/project reviews as conducted by
1204 MACOMs, ASA(AL&T) and G-8 among other sources to support risk assessment
1205 *(d)* Review Readiness Impacts based upon recommendations to retain, modify,
1206 terminate or initiate.
1207 (3) **Control Implementation**
1208 *(a)* De-conflict with other MAs/Domains.
1209 *(b)* Stakeholder coordination
1210 *(c)* Cross portfolio coordination
1211 (4) **Track & Update Capabilities Portfolio Baseline** - Recommend IT Portfolio
1212 Investments (retain, modify, terminate, initiate recommendations) in support of JCIDS, DAS,
1213 and PPBE.
1214
1215 **A-9. Portfolio Evaluation Phase**
1216 Figure A-8 depicts the Portfolio Evaluation Phase. Investment evaluation consists of monitoring
1217 change recommendations, ensuring they are consistent with MA/Domain Owner portfolio
1218 recommendations, and updating the PfM record systems.
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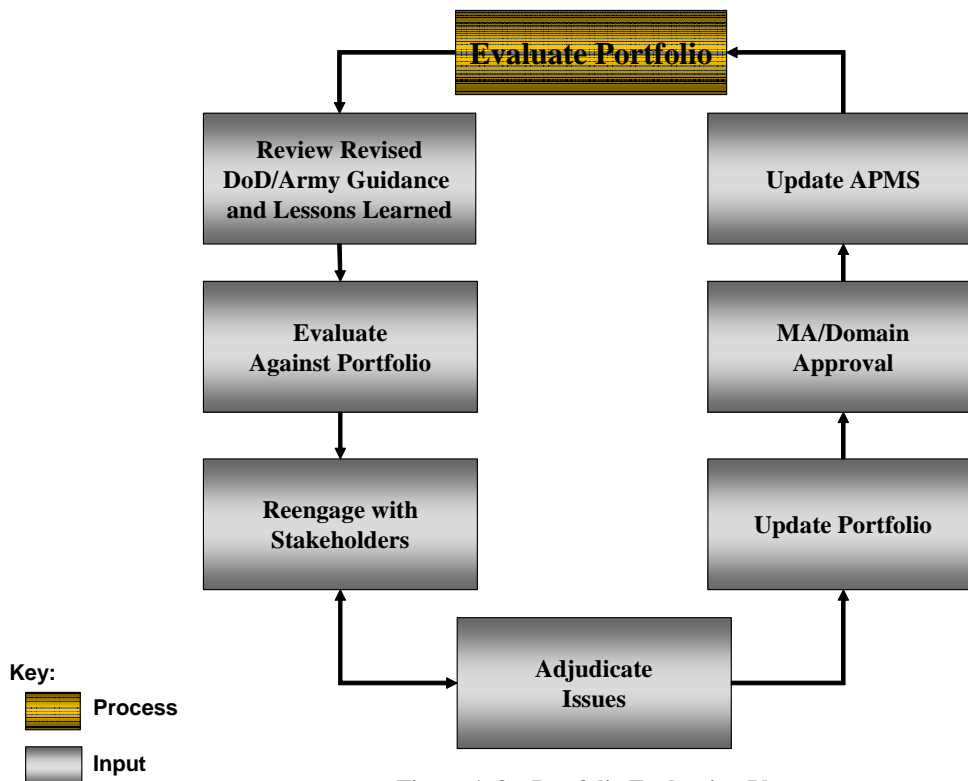1223
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Portfolio Evaluation Phase

Figure A-8 – Portfolio Evaluation Phase

   a. **Review IT Investment Change Documentation.** The MA/Domain Leads will monitor and review DoD/Army guidance (for example, Program Budget Decisions (PBDs), JROC, other Program Objective Memorandum (POM) documents, etc.) and lessons learned.

   b. **Evaluate Against Portfolio.** The MA/Domain Leads will evaluate the guidance documents to determine if recommendations were implemented. As issues are generated, the MA/Domain Leads will also monitor required changes.

   c. **Reengage with Stakeholders.** MA/Domain Leads will reengage with stakeholders to determine the impact level on their required IT capabilities/investments.

   d. **Adjudicate Issues.** MA/Domains will adjudicate as necessary.

   e. **MA/Domain Approval.** The MA/Domains will update and approve the portfolio information for all their IT investments/capabilities and make necessary adjustments to MA/Domain strategy and plans.

   f. **Update APMS.** This may require updates to the APMS-AITR module or other modules within the APMS.

A-10. Summary

This is not a static process but is a fluid and dynamic one built upon repeatable steps. MA/Domain Leads must constantly review and reevaluate portfolios based upon evolving guidance. The effort of the Analyze, Select, Control & Evaluate Phases is to support the POM process.

1272   **Appendix B**
1273   **Mission Area/Domain Portfolio Review Requirements**
1274
1275   The MA/Domains will provide appropriate briefers (SME/POC/PM) for each system being
1276   reviewed by the APRC. Domains will provide, for each system being reviewed, all required
1277   briefing materials on AKO as required.
1278
1279   **B-1. Mission Area Agenda**
1280   (Use template provided in Figure B.1 below)
1281   *a.* Provide Opening Remarks
1282   *b.* Provide Mission Area Overview
1283   *c.* Provide Domain Reviews
1284   *d.* Provide Mission Area Way-Ahead
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Figure B.1 – Mission Area Agenda

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1317   **B-2. Mission Area Overview**

1318   (Use template provided in Figure B.2 below)
1319   *a.* Provide the Mission Area's vision.
1320   *b.* Provide the Mission Area's major IT capabilities.
1321   *c.* Describe Mission Area governance processes used to identify and manage IT investments.
1322

Figure B.2 – Mission Area Overview

1363   **B-3. List of Domains** – The MAs will provide a list of their Domains.

1364   (Use template provided in Figure B.3 below)
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Figure B.3 – List of Domains

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1409   **B-4. Domain IT Portfolio Review Agenda** – The following areas will be briefed for each
1410   Domain being reviewed.
1411   (Use template provided in Figure B.4 below)
1412   *a.* Domain Vision
1413   *b.* Capabilities - Identify Core, Legacy, and Interim IT Capabilities and Investments
1414   *c.* Governance Processes
1415   *d.* Overview of Plan/Timeline to Reduce/Eliminate 80% Duplicate Capabilities
1416   *e.* Status of Information Assurance (FISMA compliance)
1417   *f.* Strategy for Interoperability Testing, Integration, and Configuration Management at CTSF
1418   *g.* Domain PfM Transformation Schedule
1419   (1) E.g. Identify Timeline for legacy sunset dates and determine when and/or if interim
1420   capabilities will transition to core or terminate
1421   *h.* Portfolio Review Dashboard
1422   *i.* Modernization/Development investments >$1M
1423   *j.* Sustainment >$10M
1424   *k.* HQDA Domain Architecture Assessment
1425   *l.* Issues / Concerns
1426   *m.* Way Ahead
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Army Domain IT Portfolio Review Agenda

★ **Domain Vision**
★ **Capabilities - Identify Core, Legacy, and Interim IT Capabilities and Investments**
★ **Governance Processes**
★ **Overview of Plan/Timeline to Reduce/Eliminate 80% Duplicate Capabilities**
★ **Status of Information Assurance (FISMA compliance)**
★ **Strategy for Interoperability Testing, Integration, and Configuration Management at CTSF**
★ **Domain PfM Transformation Schedule**
   • **E.g. Identify Timeline for legacy sunset dates and determine when and/or if interim capabilities will transition to core or terminate**
★ **Portfolio Review Dashboard**
   • **Modernization/Development investments >$1M**
   • **Sustainment >$10M**
★ **HQDA Domain Architecture Assessment**
★ **Issues / Concerns**
★ **Way Ahead**

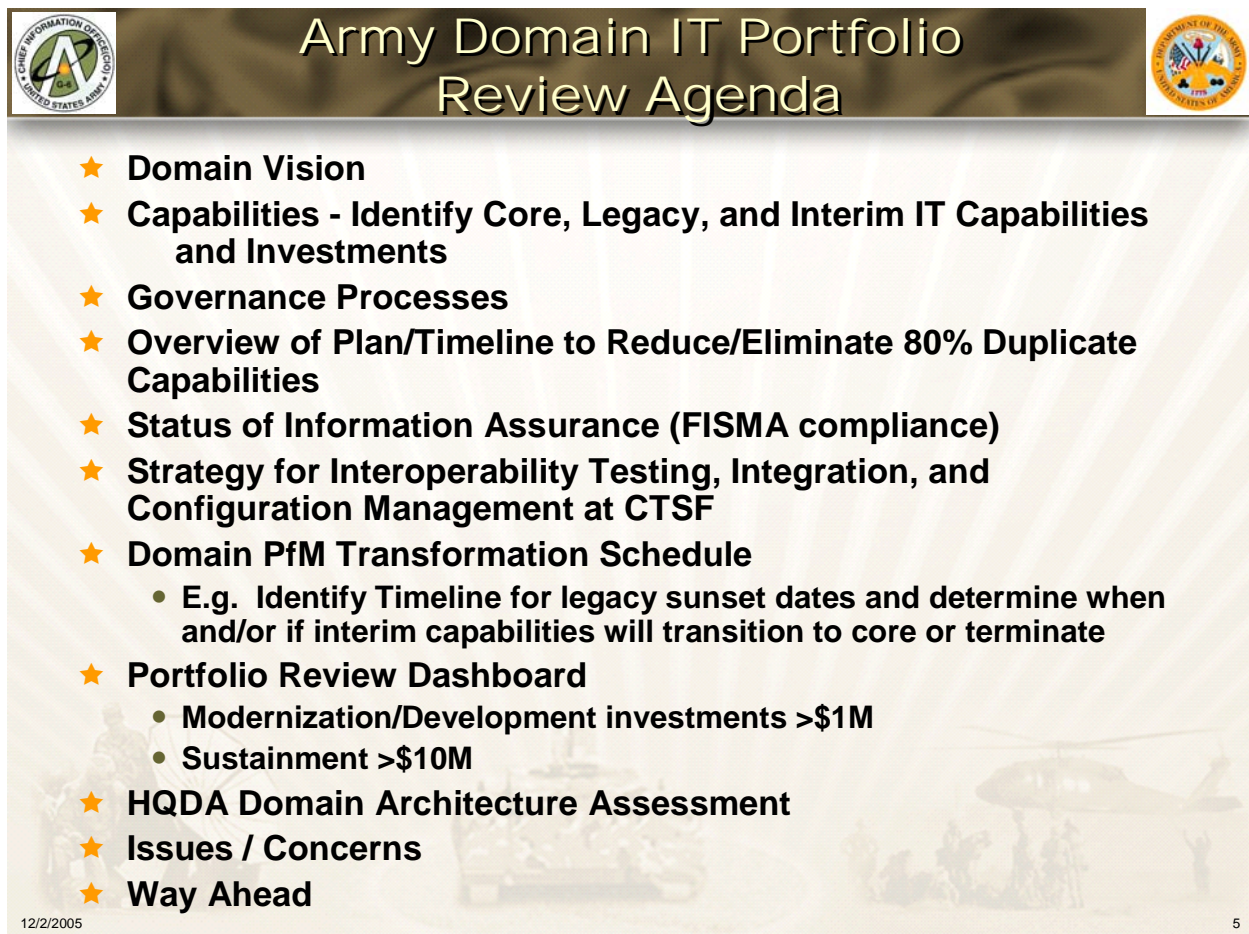12/2/2005   5

Figure B.4 – Domain IT Portfolio Review Agenda

1455　**B-5. Domain Vision, Capabilities, and Governance Processes**
1456　(Use template provided in Figure B.5 below)
1457　　　*a.* Provide the Domain's vision.
1458　　　*b.* Provide the Domain's major IT capabilities.
1459　　　*c.* Describe Domain governance processes used to identify and manage IT investments.
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Figure B.5 – Domain Vision, Capabilities, and Governance Processes

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1501   **B-6. Domain Portfolio Review Investment / Funding Summary**
1502   (Use template provided in Figure B.6 below)
1503   *a.* Identify the number of systems for each system type (Core, Interim, Legacy) under each
1504   Dev/Mod funding range (<= $1M, > $1M).
1505   *b.* Identify the number of systems for each system type (Core, Interim, Legacy) under each
1506   Sustainment funding range (<= $1M, > $1M and < $10M, >= $10M and < $100M, >= $100M).

Domain Portfolio Review Investment / Funding Summary

Development / Modernization Summary

System Type	Number of Systems	Development / Modernization	
		# of Systems with <= $1M	# of Systems with > $1M
Core			
Interim			
Legacy			

Sustainment Summary

System Type	Number of Systems	Sustainment			
		# of Systems with <= $1M	# of Systems with > $1M and < $10M	# of Systems with >= $10M and < $100M	# of Systems with >= $100M
Core					
Interim					
Legacy					

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Figure B.6 – Domain Portfolio Review Investment / Funding Summary

1547 **B-7. Domain Portfolio Review Information Assurance Summary**
1548 (Use template provided in Figure B.7 below)
1549 *a.* With support from NETCOM, provide the status on Domain Systems in meeting FISMA
1550 requirements for certification and accreditation, DoD Information Technology Security
1551 Certification and Accreditation Process (DITSCAP) to include:
1552   (1) % of systems certified and accredited (full Authority To Operate (ATO)),
1553   (2) % systems that tested their security controls,
1554   (3) % systems that tested contingency plans,
1555   (4) Documented % of users receiving annual training and awareness, and
1556   (5) NETCOM Validation.
1557 *b.* As appropriate, verify that the portfolio complies with integration/interoperability testing
1558 and configuration management of IT investment/capabilities at the Central Technical Support
1559 Facility (CTSF).
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1586   **Figure B.7 – Domain Portfolio Review Information Assurance Summary**
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B-8. Domain PfM Transformation Schedule

(Use template provided in Figure B.8 below)

    a. For each Domain Target IT system, the Domain will provide an overview graphic of systems transformation/replacement of legacy systems, to interim solutions, to future target systems. The fishbone diagram represents the migration of legacy systems and interim systems to a Target System over time with milestones, migration, and sunset dates.

        (1) Describe overall migration strategy (plans/milestones/sunset) for all Domain Target IT systems.

        (2) Provide the Domain's current portfolio of IT investments currently underway, but not yet in use.
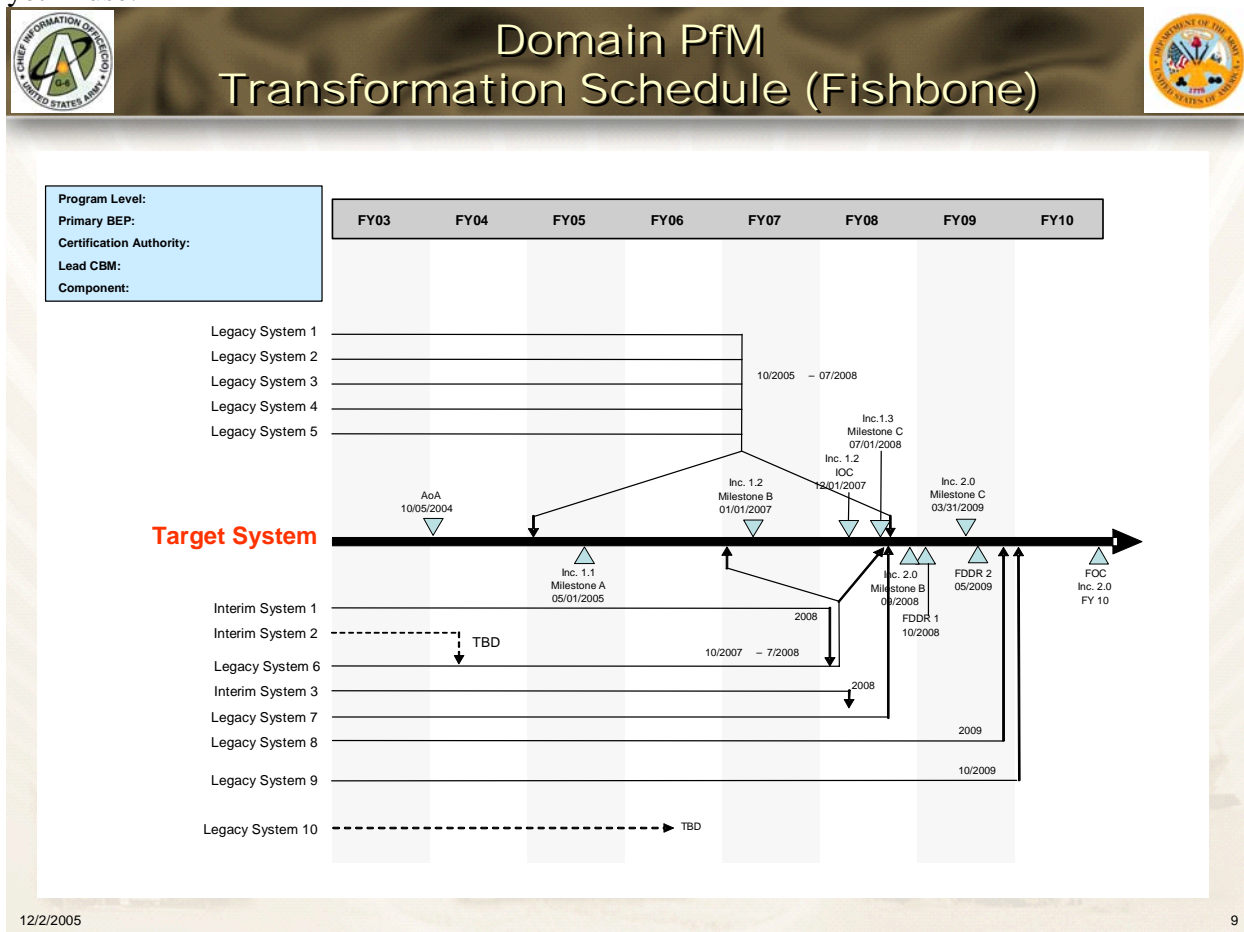

Figure B.8 – Domain PfM Transformation Schedule

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1640   **B-9. Domain Portfolio System Review Dashboard**
1641   (Use template provided in Figure B.9 below)
1642   *a.* The Domain Portfolio System Review Dashboard is required for all initiatives, systems and
1643   capabilities with Development / Modernization funding of > $1M and Sustainment funding of >
1644 $10M over the FYDP.
1645   (1) Identify System Name.
1646   (2) Identify Cost Level:
1647   *(a)* Level 1 –Modernizations / sustainment greater than $32M
1648   *(b)* Level 2 – Modernizations / sustainment of $10M up to $32M
1649   *(c)* Level 3 – Modernizations / sustainment greater than $1M but less than $10M
1650   *(d)* Level 4 – Modernizations / sustainment less than or equal to $1M
1651   (3) Determine:
1652   *(a)* Transition Plan State (Core, Interim or Legacy)
1653   *(b)* PEG, MDEP, and Army Program Element (APE)
1654   *(c)* Acquisition Category (ACAT I, ACAT IA, ACAT II or ACAT III)
1655   *(d)* Mission Area and Domain Lead and Partner OSD IRB(s)
1656   *(e)* If it is a Joint Initiative
1657   *(f)* Dates of Last and Next Milestones
1658   *(g)* Registry numbers in AITR, Selective and Native Programming Data Collection
1659   System – Information Technology (SNAP-IT) / Information Technology Management
1660   Application (ITMA) and DITPR
1661   (4) Provide a summary description of the system.
1662   (5) List three major capability gaps addressed by the system.
1663   (6) Provide status of CTSF Integration / Interoperability Testing for this system.
1664   (7) Provide status of FISMA Compliance for this system.
1665   (8) Identify Systems to be eliminated and their sunset dates
1666   (9) Identify Milestones by Fiscal Year
1667   (10) Complete Investment & Return by funding type: Dev/Mod and Operations &
1668   Maintenance (Required, Funded, Unfunded)
1669   (11) Complete Risk & Mitigation using the Risk Definitions (see Figure B.10) for
1670   Schedule, Cost, Performance, and Dependencies.
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Figure B.9 – Domain Portfolio System Review Dashboard

	Green	Yellow	Red	Rationale
Cost Risk				
Program Costs (Baseline Vs. Actual)	**Within 5% of Program Cost**	**Within 10% of Program Cost**	**>10% from Program Cost**	**Recognized *APB Thresholds**
Program By Year	**POM Budget within 5% of Estimated Requirements any given year**	**POM Budget within 10% of Estimated Requirements any given year**	**POM Budget > 10% difference from Estimated Requirements any given year**	**Implies that Key Milestones will be slipped or functionality delayed if full funding is not available according to requirements/plan.**
Schedule Risk				
Schedule Performance, Key Milestone	**Milestone/Schedule Slip < 30 Days**	**Milestone/Schedule Slip 30-90 Days**	**Milestone/Schedule Slip > 90 Days**	**Recognized *APB Thresholds**
Performance Risk				
System Architecture	**No critical issues have been identified.**	**Critical Architecture issues identified / Resolution Plan in place.**	**No Resolution Plan in place for Critical Architecture Issues**	**Unresolved architecture issues will result in system performance issues**
Risk Management	**All Medium / High Risk Items have mitigation strategies**	**One or More Medium Risk Items w/o Mitigation Strategy/Plan,**	**One or More High Risk Items w/o a defined Mitigation Strategy/Plan or evidence that Risk Management process is not effective**	**Derived from Risk Management Methodology. If Risk Management Plan is not in place or no evidence that it is being followed, then RED**

Risk Definitions
Cost/Schedule/Performance Risk

*APB = Acquisition Program Baseline

9/22/2005

5

Figure B.10 – Risk Definitions

1774　**B-10. HQDA Domain Architecture Review Recommendation**
1775　(Use template provided in Figure B.11 below)
1776　　*a.* Recommendation based upon HQDA Architecture Assessment of the Domain.
1777　　*b.* References to set of Army-wide simplified DoDAF templates in Appendix C of
1778　Implementing Guidance.
1779
1780

1805　**Figure B.11 – HQDA Domain Architecture Review Recommendation**

1820 **B-11. Domain Issues/Concerns**
1821 (Use template provided in Figure B.12 below)
1822   *a.* Provide any issues/concerns (i.e. Cross-MA issues, etc.).
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1849   **Figure B.12 – Domain Issues/Concerns**
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1866 **B-12. Domain Way-Ahead**
1867 (Use template provided in Figure B.13 below)
1868   *a.* Provide Domain way-ahead (i.e. plans for interoperability, strategy for 80% goal,
1869 transformation schedule, etc.)

Figure B.13 – Domain Way-Ahead

B-13. Questions
(Use template provided in Figure B.14 below)
    a. Q & A session / further discussion if needed.

Figure B.14 – Mission Area Backups

1958 **B-14. Mission Area Backups**
1959 (Use template provided in Figure B.15 below)
1960   *a.* Mission Area to provide any additional backup slides.
1961

Figure B.15 – Mission Area Backups

1989 **Appendix C**
1990 **IT PfM Metrics And Performance Measurement**
1991
1992 **C-1. Army IT PfM Metrics and Performance Measurement**
1993 The Army will also employ Lean / Six Sigma and other industry best practices successfully used
1994 by the world's best corporations to provide better value to our increasing responsiveness and
1995 decreasing cycle time in all processes and activities.   The Army is deploying these same
1996 techniques to better identify functions that are no longer relevant, to eliminate non-value added
1997 operations and positions, and to focus resources on our required capabilities. This is a
1998 transformational process that is being led from the highest levels of the Army.
1999
2000 **C-2. Guidance for Development of Army IT PfM Performance Measures**
2001 *a.* The Army Balanced Scorecard is the metrics focal point for Strategic Readiness System
2002 (SRS). The Army Scorecard identifies the metrics -- quantifiable success measurements -- of
2003 each readiness area. Those areas are tied to the annual Army Campaign Plan (ACP) and the
2004 Army Posture Statement (APS) which include: status of the industrial base for military
2005 equipment and supplies, Well-Being, infrastructure of all Army installations and status of
2006 federal, state and local transportation nodes in reference to their abilities to support deployments.
2007 *b.* Figure C.1 below depicts the Army use of the Balanced Scorecard methodology to
2008 communicate and align the Army's mission, vision, strategic objectives and priorities. The SRS
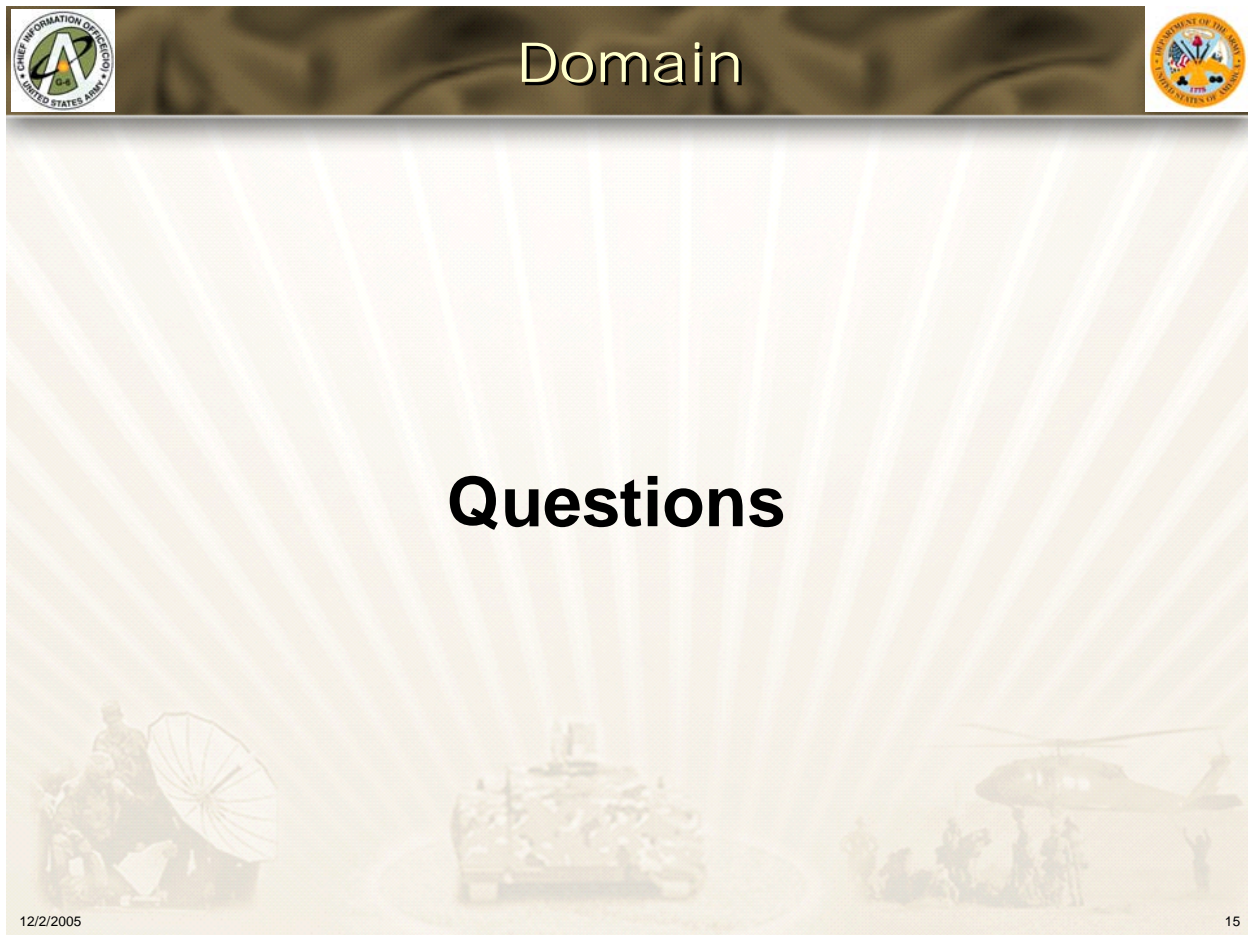2009 captures information on the key elements/ends of the Army Transformation to include
2010 installations, infrastructure, Well-Being, the nation's industrial base, sustainment, and readiness.
2011 The Army is in the process of applying the SRS to the Army Transformation to measure
2012 progress.
2013 *c.* CIO/G-6 is currently using the following performance measures for the SRS requirements:
2014   (1) % Reduction of redundant Army IT systems capabilities.
2015   (2) Alignment of APMS-AITR systems to the Army's Business Processes as deconflicted
2016 by the governing Domains.
2017   (3) % of Mission Area / Domain IT Portfolio Reviews conducted
2018   (4) Certification FY06 (e.g. BMMP and any future DoD required Certifications)
2019 *d.* MAs and Domains are expected to develop their own metrics and performance measures to
2020 track and report key elements of their PfM / transformation activities and track them using the
2021 SRS.
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Figure C.1 - Metrics - Strategic Readiness System (SRS)

C-3. Categorized Examples of Performance Measures

The following table provides some examples of basic performance measures that could be used in managing the Army IT portfolios. Some are specific to IT PfM, and some are typical for many IT projects and activities. While the Category and Metrics columns are fairly representative of those used in IT projects in general, the Measures of Success will vary greatly and should be established and tailored for each individual MA and Domain PfM / transformation initiative and objective, as appropriate.

(Draft – Some Basic Performance Measures for IT Activities)

2081

Category	Metrics	Purpose	Measure of Success
Compliance	Number of Mission Area /Domain IT Systems Identified as Core / Interim / Legacy and Base-lined in APMS-AITR module	Establish a complete inventory of Army IT systems to baseline Army IT investments	100% of known Army IT systems are in APMS-AITR module
	Number of Mission Area /Domain IT Capabilities Identified aligned to the system baseline above and Base-lined in APMS-AITR module	Establish a complete inventory of Army capabilities to improve Army IT investments	100% of known Army capabilities are in APMS-AITR module
	Number of Mission Critical / Mission Essential capability gaps identified	Provide Mission Critical / Mission Essential capabilities to meet Warfighter requirements	Reduced number of Mission Critical / Mission Essential capability gaps
	Number of systems compliant with CTSF Interoperability requirements.	Track progress towards system CTSF interoperability certification.	% of systems as Interoperable
	Number of MA/Domain IT Portfolio Reviews conducted	Track progress towards completion of reviews.	% of MA/Domain IT Portfolio Reviews conducted
	Number of systems requiring certification	Track progress towards certification of systems.	% of Certification FY06 (> $1M Development / Modernization)
	Number of Domains that have AEA aligned architecture	Track progress towards alignment to AEA	% of Domains that have an AEA aligned architecture.
Redundancy	Elimination of duplicate or overlapping Army systems.	Ensure return on investment.	% Retirement of identified duplicate systems
	Decreased number of duplicate data elements.	Reduce input redundancy and increase data integrity.	Data elements are entered once and stored in one database.
	Number of Mission Area/Domain redundant IT investments / capabilities / systems eliminated.	Make available scarce IT resources for higher priority investments / capabilities	80% reduction of duplicate IT investments / capabilities by EOFY 2007

2082

2083 **Appendix D**
2084 **Enterprise Architecture's (EA) Role in Portfolio Management**
2085
2086 **D-1. Background**
2087   *a.* Architectures must be considered when making IT investment decisions. Within DoD,
2088 high-level strategy and guidance statements (e.g., National Security Strategy (NSS), National
2089 Military Strategy (NMS), Joint Operational Concept (JopsC), Defense Planning Guidance
2090 (DPG), Unified Command Plans (UCP)) and overarching concepts statements establish the
2091 enterprise architecture. The IT enterprise architecture is defined in the Global Information Grid
2092 (GIG) Architecture, Net-Centric Operations and Warfare Reference Model (NCOW–RM), DoD
2093 Data Strategy, DoD Information Assurance (IA) Strategy, DoD Net-Centric (NC) Services
2094 Strategy, and other related guidance. MA/Domain Leads must ensure the development and
2095 utilization of MA/Domain architectures to include applicable IT systems/initiatives architectures
2096 are consistent with enterprise architecture requirements. Architecture products provide an
2097 essential tool for effectively and efficiently engineering operational processes and information
2098 exchanges, and for implementing and evolving supporting systems.
2099   *b.* An MA/Domain Enterprise Architecture is a description of the MA/Domain including
2100 organizational stakeholders, high level capability requirements, process flows and supporting
2101 infrastructure. A complete MA/Domain Enterprise Architecture includes both an "as-is"
2102 (current) description and a "to-be" (future) description of the enterprise, in support of
2103 MA/Domain transformation plans for migrating from the as-is to the to-be (which may include
2104 transitional architectures).
2105   *c.* The Army Enterprise Architecture (AEA) is a federated architecture which brings together
2106 all of the MA and Domain Enterprise Architectures which are inherently a part of the Army
2107 Enterprise. The AEA will align to Federal, Joint and DoD Architectures.
2108
2109 **D-2. Objective**
2110   *a.* In support of Portfolio Management, the enterprise architectures provide information
2111 required to drive the following initiatives:
2112   (1) Drive all Army systems to be developed as modular, joint and interoperable;
2113   (2) Expedite the fielding of Army systems by providing enhanced requirements
2114 documentation and meeting all statutory, regulatory and policy requirements with respect to
2115 architecture development and compliance; and
2116   (3) Harmonize touch-points, between and amongst disparate/federated architectures and
2117 work to identify and reduce capability gaps and overlaps.
2118   (4) Drive interoperability and integration of capabilities
2119   (5) Create robust baselines of portfolios of processes, programs, systems and outcomes,
2120   (6) Perform an integrated analysis of gaps and opportunities, using robust methodologies,
2121 common assumptions, and advanced analytical tools,
2122   (7) Establish approaches that lead to integrated materiel and non-materiel solutions
2123   (8) Promote the Net-Centric data strategy to enable data interoperability
2124
2125 **D-3. HQDA Architecture Roles in PfM**
2126   *a.* G-3/5/7
2127   (1) The G-3/5/7 is the Chief Architect of the Army.

2128   *b.* CIO/G-6
2129   (1) To support this effort across the Army, the HQDA CIO/G-6 will establish an EA
2130   Support Team within the Army Architecture and Integration Cell (AAIC). This team will work
2131   in coordination with ASA(AL&T), HQDA G-3/5/7 and Training & Doctrine Command
2132   (TRADOC) to serve as an Army enterprise level asset to support all Army MA and Domain
2133   Leads and members in the development and use of their architecture products.
2134   (2) Specifically, in support of MA and Domain Leads, the CIO/G6 EA Support Team will:
2135   *(a)* Establish and co-chair (with ASA(AL&T) and TRADOC) a collaborative working
2136   group called the Enterprise Architecture Working Group (EAWG). This group will develop
2137   common architecture tools and templates all Army MAs and Domains will use in order to
2138   standardize architecture integration efforts across the Army.
2139   (i) Ensure that the Army templates are aligned to existing DoD Architecture
2140   Framework (DODAF) views.
2141   *(b)* In coordination with the EAWG, ASA(AL&T) and TRADOC, the CIO/G-6 will
2142   publish revised templates annually with a prescribed list of the minimum basic artifacts to fully
2143   depict an enterprise architecture at the MA and Domain levels.
2144   (i) The required list of standard templates published by CIO/G6 will be used and
2145   submitted by every Army MA and Domain in the following Fiscal Year for validation and
2146   inclusion in the Federated AEA.
2147   (ii) The CIO/G-6 will publish each year's templates no later than 30 JUNE of the
2148   previous year to allow Domains time to plan and budget the following year's architecture
2149   development activities accordingly.
2150   *(c)* The CIO/G-6 will provide technical advice and guidance to MA and Domain
2151   Leads, including the maintenance of an EA Community Forum in AKO with standardized Army
2152   architecture templates, examples and easy to follow instructions for the development of
2153   architecture products.
2154   *(d)* The CIO/G-6 will federate/integrate Army MA and Domain Architecture products,
2155   maintaining a central repository and publishing (annually) the federated AEA.
2156
2157   **D-4. Mission Area Lead Actions**
2158   *a.* Coordinate with JCS/OSD Mission Area counterparts as appropriate
2159   *b.* With the Army architects, ensure development of the following Architecture products using
2160   formats and tools provided by CIO/G-6:
2161   (1) A view which shows the assignment of capabilities to Domains within the MA
2162   (2) A view which identifies the major stakeholders within the MA
2163   *c.* MAs must develop and maintain architecture products prior to the MA review.
2164   *d.* MA will review Domain Architecture products.
2165   *e.* Ensure that the development of MA Architecture products is the documentation of the
2166   results of a concerted strategic and technical planning effort that starts with forward looking
2167   operational needs assessments and ends with the identification of an infrastructure design that
2168   optimizes available resources to meet the requirements of the enterprise.
2169   *f.* Each Army MA Lead will, at a minimum:
2170   (1) Provide a representative to participate in the EAWG;
2171   (2) Harmonize cross-MA/Domain information exchange standards;
2172   (3) Approve Domain Architecture products within their MA; and

2173   (4) Make iterative improvements in their MA architecture products as required in
2174 accordance with the architecture validation and publication process described below.
2175
2176 **D-5. Domain Lead Actions**
2177   *a.* Coordinate with MA Leads as appropriate.
2178   *b.* With the Army architects, ensure development of the following Architecture products using
2179 formats and tools provided by CIO/G-6:
2180   ● A view which provides a common capabilities taxonomy for the domain which is used
2181   by all programs/initiatives within the Domain to identify and map their capabilities
2182   ● A view which identifies all inter-Domain interoperability touchpoints and capability
2183   gaps and overlaps between systems
2184   ● A view which identifies all intra-Domain interoperability touchpoints and capability
2185   gaps and overlaps between systems
2186   ● A view which identifies all bandwidth requirements for Domain systems across the
2187   enterprise
2188   ● A view which identifies all the technical and information standards which systems
2189   within the Domain must comply with and/or use
2190   *c.* Domain leaders will validate that all IT investments are aligned with Army operational
2191 capabilities
2192   *d.* Ensure that the development of Domain architecture products is the documentation of the
2193 results of a concerted strategic and technical planning effort that starts with forward looking
2194 operational needs assessments and ends with the identification of an infrastructure design that
2195 optimizes available resources to meet the requirements of the enterprise.
2196   *e.* Domain Leads will:
2197   (1) Provide a representative to participate in the EAWG;
2198   (2) Harmonize internal Domain information exchange standards;
2199   (3) Submit their Domain Architecture products for approval to the appropriate MA Lead
2200 and, in coordination with CIO/G-6, have Domain architecture products validated and published;
2201   (4) Make iterative improvements in their Domain Architecture products as required in
2202 accordance with the architecture validation and publication process described below.
2203
2204 **D-6. Architecture Validation and Publication Process**
2205   *a.* Army Domain Architecture products will be submitted and validated annually to ensure
2206 valid and current architectures are available to support milestone decisions, portfolio reviews,
2207 and other leadership decisions. The validation process will not look at capabilities, systems and
2208 processes that sit wholly within a Domain but rather would focus on touch points and
2209 intersections where mission threads cross Domains and have impacts outside of that Domain and
2210 where capability gaps and overlaps exist across Domains.
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Figure D-1 Architecture Validation and Publication Process

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2235   *b.* The purpose of the validation process is not to second guess business processes or
2236 functional requirements developed and approved by MA and Domain Leads, but rather to ensure
2237 alignment across MAs and Domains. The validation process will ensure that Domain
2238 Architecture products:
2239   (1) Meet operational needs, capability requirements and priorities of the Army;
2240   (2) Align to, and federate with, other Army, Joint or DoD Level Architectures and
2241 guidance (e.g., DoD Information Technology Standards Registry (DISR), DoD-BEA, Army
2242 Software (SW) Blocking, NCOW-RM, etc.); and
2243   (3) Align to Army and DoD transformation and modernization initiatives if applicable.
2244

2245 **D-7. Architecture Support for Portfolio Management (PfM)**
2246   *a.* Army is implementing a two-phased process for architecture validation in support of PfM
2247 and other decision making processes. Gaining approval of Domain Architecture products in
2248 advance, decreases architecture submission requirements for individual programs and expedite
2249 portfolio reviews. This process will also serve to expedite Milestone Decision, Operational
2250 Needs Statement Authority and other decision and certification package routing and approvals.
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2263   **Figure D-2 – Army "Two-Step" Process**

2264   *b.* This two-step process will fulfill Army requirements and enable full compliance with
2265   appropriate laws and regulations. Using this system, architecture validation and certification
2266   staffs will be able to focus on approval of Architectures, and thereby minimize the time and
2267   effort required to validate/certify individual programs. Moreover, this two step process will drive
2268   the Army down a path toward documenting architectures in a manner that actually makes them
2269   usable as executive management tools.
2270
2271

2272 **Appendix E**
2273 **Army Portfolio Management Solution (APMS) - Portfolio Management**
2274 **Decision Support Tool**
2275

2276   *a.* As the CIO/G-6 worked to develop an integrated IT PfM governance structure within the
2277 DoD direction and guidance to meet the responsibilities directed in the Clinger-Cohen Act, it
2278 was recognized that a PfM Decision Support Tool is required to enable true enterprise PfM. A
2279 detailed process was undertaken within CIO/G-6 reviewing and evaluating potential GOTS and
2280 COTS products that had the potential to meet the need.
2281   *b.* The APMS Decision Support Tool uses the COTS tool as the base, configured to meet the
2282 Army unique requirements. APMS met or exceeded all evaluative criteria used during the tool
2283 selection process, and will be configured with modules to support the separate, but related and
2284 integrated, pieces of PfM. The initial implementation of APMS allowed for the distribution of
2285 5,000 licenses across the Army ensuring all required individuals who support the Army
2286 governance processes have access to and are trained in the use of the system. MACOMs and
2287 Commands are capable of extending the current configuration of the tool to support their unique
2288 needs, as long as all extensions are coordinated through the APMS Configuration Control Board
2289 (CCB). The APMS CCBs will be held on a quarterly basis with the first held in the 1st Quarter
2290 FY06.
2291   *c.* During the Evaluation Phase, the requirements for any PfM tool included the capability to:
2292   (1) Facilitate data collection with Web-based forms and supports all common data types.
2293 Use an open architecture and standard database configurations to upload data from other
2294 systems, thereby leveraging, not replacing, existing databases. Data security must be developed
2295 to meet DoD standards. This system will record and display transaction information.
2296   (2) Utilize wizards and a broad range of configurable fields encompassing all data type
2297 and calculations required for process support. Possess an internal query-based analytical
2298 capability that would support multidimensional views to integrate budget and performance
2299 information. Enable linkage and tracking of actions items, documents, dependencies and
2300 resources to the investment.
2301   (3) Support the Select Phase with forms to collect data, scorecards with calculated values
2302 (ROI, NPV, etc) to review information and multidimensional maps to evaluate alignment,
2303 balance, priority, performance and cost of IT investments. Enables Capital Planning &
2304 Investment Control (CPIC) budgeting processes needed for submission of Exhibits 300 and 53 to
2305 OMB, including automated optimization to facilitate "pass back" funding decisions. Permit
2306 creation, monitoring and distribution of standard lifecycles across the enterprise.
2307   (4) Support the Control Phase with forms to collect data, scorecards with calculated values
2308 (capability acquisition, milestone/deliverable completion, EVM, risk, etc) to review information
2309 and multidimensional maps to facilitate visualization of a large number of investments and
2310 management by exception. All views need to be re-usable and re-configurable. Enable full
2311 lifecycle monitoring and provide a configuration for the Federal Enterprise Architecture (FEA).
2312   (5) Support the Evaluation Phase with post-implementation reviews, assessments, what-if
2313 planning/scenarios and other performance indicators.
2314   (6) Support many to many relationship between IT investments and portfolios, allowing
2315 the same investment to reside in multiple portfolios. Provide unlimited flexibility in creating
2316 portfolios based on business need or analytic requirements

2317   (7) Provide cross-Domain and cross-MA/Enterprise insights into proposed IT investments
2318   in support of strategic decision making
2319   (8) Allow on-line collaboration while viewing portfolio data; enables knowledge
2320   management; different access levels in relation to user level
2321   *d.* The final evaluation and selection of the COTS product to support the IT PfM requirement
2322   was made in coordination between the Army CIO/G-6 and the Assistant Secretary of the Army
2323   (Financial Management and Comptroller) (ASA(FM&C)), who directed the tool be developed
2324   to: meet the requirements for registration and reporting of IT Investments; meet the emerging
2325   Domain Certification requirements; support cross-MA and Domain analysis of IT investments to
2326   identify duplicate, redundant or inefficient investments where expended dollars could be
2327   recapitalized; and, support the development of the Army's IT Investment Strategy used during
2328   the Army budget process.
2329   *e.* The APMS-Domain Certification (ADCM) module will support the preparation of the
2330   documentation necessary to support Domain level reviews of IT investments. Intense efforts
2331   will be made to rationalize any conflicts which may become evident as the DoD MAs mature
2332   and their processes become better defined. It is intended that the ADCM become the Army's
2333   repository for all Domain Certification packages submitted through Army to DoD. The ADCM
2334   module will also support Domain level reviews of investments they fund by capability,
2335   identifying within their Domain the 'best-practices' to be adopted and where strategic level
2336   decisions can be made regarding investments, thereby ensuring their investments best meet the
2337   needs within their Domain.
2338   *f.* The APMS-Capital Planning and Investment Management (APMS-CPIM) module
2339   integrates the efforts achieved through the APMS-DC level and reviews/analyzes IT investments
2340   at the MA/Enterprise. All IT investments are reviewed by capabilities each provide and then
2341   evaluated using a set of analytical evaluative criteria. The analytical criteria include: Strategic
2342   Alignment; Capability Justification; Performance Outcome/Achievement; Functional
2343   Interdependencies; Mission Criticality; Integration and Risk; and Cost and Confidence. These
2344   categories serve as the basis for an evaluation of each proposed investment by Health, Risk and
2345   Value which can then be viewed through a series of pair-wise comparisons and investor maps.
2346   APMS-CPIM enables identification of duplicate or inefficient investments across the Enterprise,
2347   resulting in an IT Investment Strategy, prioritized by the funding Program Evaluation Group
2348   (PEG), to support the budget development.
2349   *g.* The PfM registration and reporting requirement will be accomplished using the APMS-
2350   AITR module, which will subsume and replace the existing AITR system as the Army's IT
2351   Registry. This module will serve as the point from which all external IT registry reports are
2352   generated (i.e. DoD ITR reporting requirements), and is also the point where
2353   MACOMs/Commands register their existing IT investments, specifying the capability each
2354   provides and which MA/Domain they think the investment best aligns within. The APMS-AITR
2355   module will be the Army's IT repository of record.
2356
2357   **E-1. APMS-AITR Module Criteria**
2358   *a.* The APMS-AITR module is the Army's single authoritative registry for Information
2359   Technology (IT) investments/capabilities/systems. The APMS-AITR module is used to manage
2360   the Mission Critical (MC), Mission Essential (ME), and Mission Support (MS) systems that are
2361   reported to the Office of the Secretary of Defense (OSD), Office of Management and Budget
2362   (OMB), and Congress. OSD also uses APMS-AITR module to compile and extract the Federal

2363   Information Security Management Act (FISMA) Report, in accordance with the E-Government
2364   Act of 2002 (44 U.S.C. Chapter 36).
2365   b. While Army MA/Domain Leads are responsible for managing IT capabilities as portfolios,
2366   MACOMs and system owners are responsible for certifying their Army Portfolio Management
2367   Solution (APMS)-Army Information Technology Registry (AITR) records as accurate and
2368   complete. Any system categorized as National Security System (NSS), or that has an
2369   Acquisition Category (ACAT) level or a Mission Assurance Category (MAC) level is, by
2370   definition, considered to be a "system" and shall be reported in the APMS-AITR module.
2371   c. The following criteria are to be used to determine APMS-AITR system input eligibility:
2372   (1) The Army is a funding source and/or primary manager (e.g., Executive Service of a
2373   Joint program, with the exception of Intel systems which are reported in the Defense Intelligence
2374   Mission Area); and
2375   (2) The item is
2376   *(a)* A system of systems; or
2377   *(b)* A family of systems; or
2378   *(c)* An information system; or
2379   *(d)* An application; or
2380   *(e)* A network; and
2381   (3) The item is
2382   *(a)* Funded at greater than $25,000 in any year of the Future Year Defense Program
2383   (FYDP) across all appropriations; or
2384   *(b)* Commercial Off-The-Shelf (COTS) software with greater than $25,000 in
2385   customizations in any year of the FYDP; or
2386   *(c)* An IT investment with at least one development/modernization task funded at more
2387   than $1M over all years of the FYDP; or sustainment over $10M; and
2388   *(d)* Requires network access; and
2389   *(e)* Accreditable Army Information System per the DITSCAP/DIACAP; and
2390   *(f)* The item can be reported without divulging classified information.
2391   d. Specific examples of Army items required to be included:
2392   (1) Any Acquisition Category (ACAT) System;
2393   (2) Any National Security System (NSS);
2394   (3) Any Mission Assurance Category (MAC) System;
2395   (4) Any Major Command (MACOM) Standard System;
2396   (5) Any Below Major Command (MACOM) Systems (e.g., bridges, unique used at a
2397   single site, etc);
2398   (6) Automated Information Systems (AIS);
2399   (7) Data Stores (or Data Warehouse) – (i.e., a static, historical database, active, etc.);
2400   (8) Portals; and
2401   (9) Financial and "Mixed" Systems
2402   e. Specific examples of items to be reported only as part of another reported system (i.e., not
2403   reported separately):
2404   (1) Modules;
2405   (2) Subsystems;
2406   (3) Software Product/Suite;
2407   (4) Information Technology (IT) Labor Skill;
2408   (5) Internal script;

2409   (6) Open Data-Base Connectivity Object;
2410   (7) Portals associated with a specific, reported item; and
2411   (8) Commercial-Off-The-Shelf (COTS) Office Automation
2412   *f.* Specific examples identified below are excluded unless directly related to a system:
2413   (1) An Information Assurance Initiative;
2414   (2) An Architecture Initiative;
2415   (3) Data Management Initiative;
2416   (4) Intelligence Systems;
2417   (5) Peripheral Equipment or Personal Digital Assistant (PDA); and
2418   (6) A report
2419   *g.* Computing Infrastructure components to be reported
2420   (1) Peripheral Equipment or PDA not associated with a reported system
2421   *h.* Steps to Add/Delete a System (The requirements for adding and the authority for deleting
2422 systems from the APMS-AITR module can be found at the URL https://apms.us.army.mil/).
2423   (1) Show/Open the My Portfolios Bar (left hand side of window).
2424   (2) Click on the Drop-down menu.
2425   (3) Open the Executive Reviewers Operations folder; Open the Army Operational
2426 Processes sub-folder; Open the Army – Add a System folder; and Click on the Army
2427 Registration Request folder to view instructions in adding a system.
2428   (4) Open the Executive Reviewers Operations folder; Open the Army Operational
2429 Processes sub-folder; Open the Army – Delete a System folder; and Click on the Army Deletion
2430 Request folder to view instructions in deleting a system.
2431   (5) Another source for instructions in adding/deleting a system can be found in the APMS
2432 Fundamentals Training Manual (23 Nov 05) on the AKO APMS Community Page (URL
2433 https://www.us.army.mil/suite/page/84688).
2434
2435

2436 **Appendix F**
2437 **Interoperability Testing, Certification and Configuration Management at the**
2438 **Central Technical Support Facility (CTSF)**
2439
2440   *a.* Per the DoD Instruction 4630.8 Para 4, DoD policy requires that IT and NSS employed by
2441 U.S. Forces shall, where required (based on capability context), interoperate with existing and
2442 planned, systems and equipment, of joint, combined and coalition forces and with other U.S.
2443 Government Departments and Agencies, as appropriate. The Department of Defense shall
2444 achieve and maintain decision superiority for the warfighter and decision-maker by developing,
2445 acquiring, procuring, maintaining, and leveraging interoperable and supportable IT and NSS.
2446   *b.* The CIO/G-6 is responsible to the SA and to the CSA to ensure IT and NSS are
2447 interoperable. To accomplish this task, the Central Technical Support Facility (CTSF) will
2448 execute the direction of the CIO/G-6 in support of this specific mission. Assistant Secretary of
2449 the Army for Acquisition, Logistics, and Technology (ASA(ALT)) , in partnership with the
2450 CIO/G-6, will establish the support structure to execute this mission. This partnership will
2451 allow for the implementation of the necessary architecture, engineering and development
2452 required to support the prioritized capability as identified by the G-3/5/7 to support Warfighter
2453 specific requirements.
2454   *c.* The CTSF is charged with rapidly developing, fielding and supporting leading-edge,
2455 secure and interoperable tactical, theater, and strategic command, control and communications
2456 systems. The facility offers systems interoperability, integration testing, configuration
2457 management and field engineering to Army Mission Areas and Domains.
2458   *d.* The CTSF will serve as the single integrating point for Battle Command (BC) technical
2459 capabilities integration. The CIO/G-6 is responsible for ensuring necessary database, overall
2460 systems, and architecture modifications are implemented to achieve the greatest degree of
2461 technical integration and interoperability proficiency as rapidly as possible with the goal of
2462 meeting Commander's concerns as ABCS 6.4 is fielded across the Army.
2463   *e.* MA and Domains will perform a review of all systems and report whether their systems
2464 are systems of record and submit them as appropriate for interoperability testing and "ruthless
2465 configuration management" at the CTSF. MA and Domains will ensure their IT Portfolio
2466 reviews identify and discuss systems/capabilities and their proposed schedule for
2467 interoperability and integration testing and configuration management at the Central Technical
2468 Support Facility (CTSF).
2469   *f.* Intra-Army Interoperability Certification (IAIC) requires the following requirements:
2470   (1) Any System that has a Requirement to be Interoperable with a Current Force System
2471   (2) C4I Systems that have a Command, Control, Communications or Intelligence
2472 Function from Army Forces Down to Squad Level
2473   (3) IAIC is Required for Each Version to be Released to the Field
2474   (4) IAIC is not Army Battle Command System-Centric
2475   (5) Any Army Business Systems that Interoperate with C4I Systems
2476   (6) PMs Must Complete IAIC Prior to Acquisition Milestone C FRP or IPR
2477   Current Force Systems – Those Systems Fielded Prior to December 2000- Must Certify All
2478   Hardware and Software Upgrades or Changes Prior to Fielding of Upgrade
2479

2480   **Appendix G**
2481   **Business Mission Area (BMA)**
2482
2483   To be provided by the BMA – end of 3rd Quarter FY06
2484
2485   Refer to URL (TBD).
2486
2487   **G-1. Governance**
2488   *a.* DoD
2489   *b.* Army
2490   *c.* Army Mission Area Alignment with DoD
2491
2492   **G-2. MA IT Portfolio Management Process**
2493
2494   **G-3. Mission Area Enterprise Architecture Compliance**
2495
2496   **G-4. MA Plan/Timeline for Duplicate Capability Reduction by 2007**
2497

2498 **Appendix H**
2499 **Warfighting Mission Area (WMA)**
2500
2501 To be provided by the WMA – end of 3rd Quarter FY06.
2502
2503 Refer to URL (TBD).
2504
2505 **H-1. Governance**
2506   *a.* DoD
2507   *b.* Army
2508   *c.* Army Mission Area Alignment with DoD
2509
2510 **H-2. MA IT Portfolio Management Process**
2511
2512 **H-3. Mission Area Enterprise Architecture Compliance**
2513
2514 **H-4. MA Plan/Timeline for Duplicate Capability Reduction by 2007**
2515

2516 **Appendix I**
2517 **Enterprise Information Environment Mission Area (EIEMA)**
2518
2519 To be provided by the EIEMA – end of 3rd Quarter FY06.
2520
2521 Refer to URL (TBD).
2522
2523 **I-1. Governance**
2524   *a.* DoD
2525   *b.* Army
2526   *c.* Army Mission Area Alignment with DoD
2527
2528 **I-2. MA IT Portfolio Management Process**
2529
2530 **I-3. Mission Area Enterprise Architecture Compliance**
2531
2532 **I-4. MA Plan/Timeline for Duplicate Capability Reduction by 2007**
2533

2534 **Appendix J**
2535 **Defense Intelligence Mission Area (DIMA)**
2536
2537 To be provided by the DIMA – end of 3rd Quarter FY06.
2538
2539 Refer to URL (TBD).
2540
2541 **J-1. Governance**
2542   *a.* DoD
2543   *b.* Army
2544   *c.* Army Mission Area Alignment with DoD
2545
2546 **J-2. MA IT Portfolio Management Process**
2547
2548 **J-3. Mission Area Enterprise Architecture Compliance**
2549
2550 **J-4. MA Plan/Timeline for Duplicate Capability Reduction by 2007**
2551

2552 **Appendix K**
2553 **References**
2554
2555 **Section I**
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2557
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2643

2644   **Glossary**
2645
2646   **Section I**
2647   **Abbreviations**
2648
2649   **AAA**
2650   Army Audit Agency
2651
2652   **AAIC**
2653   Army Architecture Integration Cell
2654
2655   **ACAT**
2656   Acquisition Category
2657
2658   **AEA**
2659   Army Enterprise Architecture
2660
2661   **AIS**
2662   Automated Information System
2663
2664   **AITS**
2665   Automatic Intelligence Information Systems
2666
2667   **AKO**
2668   Army Knowledge On-Line
2669
2670   **APG**
2671   Army Planning Guidance
2672
2673   **APMS**
2674   Army Portfolio Management Solution
2675
2676   **ARSTAFF**
2677   Army Staff
2678
2679   **ASA (AL&T)**
2680   Assistant Secretary of the Army (Acquisition, Logistics & Technology)
2681
2682   **ASA (FM&C)**
2683   Assistant Secretary of the Army (Financial Management and Comptroller)
2684
2685   **ASD (NII/CIO)**
2686   Assistant Secretary of Defense for Networks and Information Integration / CIO
2687
2688   **AT&L**
2689   Acquisition, Technology & Logistics

2690
2691 **ATO**
2692 Authority To Operate
2693
2694 **AV**
2695 All View (DoDAF)
2696
2697 **AV-1**
2698 Overview and Summary Information
2699
2700 **AV-2**
2701 Integrated Dictionary
2702
2703 **BEA**
2704 Business Enterprise Architecture
2705
2706 **BMA**
2707 Business Mission Area
2708
2709 **BMMP**
2710 Business Management Modernization Program
2711
2712 **CA**
2713 Certification Authority
2714
2715 **CBM**
2716 Core Business Mission
2717
2718 **CCA**
2719 Clinger-Cohen Act
2720
2721 **CDD**
2722 Capabilities Design (or Development) Document
2723
2724 **CIO/G-6**
2725 Chief Information Officer/G-6
2726
2727 **COI**
2728 Community of Interest
2729
2730 **COTS**
2731 Commercial Off-The-Shelf
2732
2733 **CPD**
2734 Capability Production Document
2735

2736 **CPIC**
2737 Capital Planning and Investment Control
2738
2739 **CPIM**
2740 Capital Planning and Investment Management
2741
2742 **DAS**
2743 Defense Acquisition System
2744
2745 **DBSMC**
2746 Defense Business System Management Committee
2747
2748 **DEPSECDEF**
2749 Deputy Secretary of Defense
2750
2751 **DIACAP**
2752 DoD Information Assurance Certification and Accreditation Process
2753
2754 **DIMA**
2755 Defense Intelligence Mission Area
2756
2757 **DITPR**
2758 DoD Information Technology Portfolio Repository
2759
2760 **DITSCAP**
2761 DoD Information Technology Security Certification and Accreditation Process
2762
2763 **DEV/MOD**
2764 Development/Modernization/Enhancement
2765
2766 **DoD**
2767 Department of Defense
2768
2769 **DoD EA RM**
2770 DoD Enterprise Architecture Reference Model
2771
2772 **DoDAF**
2773 DoD Architecture Framework
2774
2775 **DoDD**
2776 Department of Defense Directive
2777
2778 **DRM**
2779 Data Reference Model
2780
2781 **EA**

2782   Enterprise Architecture
2783
2784   **E-Government**
2785   Electronic Government Act
2786
2787   **EIEMA**
2788   Enterprise Information Environment Mission Area
2789
2790   **ERP**
2791   Enterprise Resource Planning
2792
2793   **ETP**
2794   Enterprise Transition Plan
2795
2796   **FEA**
2797   Federal Enterprise Architecture
2798
2799   **FFMIA**
2800   Federal Financial Management Improvement Act
2801
2802   **FISMA**
2803   Federal Information Security Management Act
2804
2805   **FM**
2806   Financial Management
2807
2808   **FY**
2809   Fiscal Year
2810
2811   **FYDP**
2812   Future Year Defense Program
2813
2814   **GAO**
2815   Government Accountability Office
2816
2817   **GIG**
2818   Global Information Grid
2819
2820   **GOTS**
2821   Government Off-The-Shelf
2822
2823   **HRM**
2824   Human Resources Management
2825
2826   **ICD**
2827   Initial Capabilities Document

2828
2829 **IPR**
2830 In-process review
2831
2832 **IPT**
2833 Integrated Project Team
2834
2835 **IR**
2836 Investment Review
2837
2838 **IRB**
2839 Investment Review Board
2840
2841 **IT**
2842 Information Technology
2843
2844 **ITMA**
2845 Information Technology Management Application
2846
2847 **JCIDS**
2848 Joint Capabilities Integration and Development System
2849
2850 **JCS**
2851 Joint Chiefs of Staff
2852
2853 **MAC I**
2854 Mission Assurance Category I
2855
2856 **MAC II**
2857 Mission Assurance Category II
2858
2859 **MAC III**
2860 Mission Assurance Category III
2861
2862 **MACOM**
2863 Major Command
2864
2865 **MAIS**
2866 Major Automated Information System
2867
2868 **MDA**
2869 Milestone Decision Authority
2870
2871 **MDAP**
2872 Major Defense Acquisition Program
2873

2874 **MSSM**
2875 Material Supply and Service Management
2876
2877 **NDAA FY05**
2878 Ronald W. Reagan National Defense Authorization Act of 2005 (PL 108-375)
2879
2880 **NII**
2881 Networks and Information Integration
2882
2883 **NSS**
2884 National Security System
2885
2886 **OGC**
2887 Office of General Counsel
2888
2889 **OMB**
2890 Office of Management and Budget
2891
2892 **OSD**
2893 Office of the Secretary of Defense
2894
2895 **OV**
2896 Operational View (DoDAF)
2897
2898 **OV-1**
2899 DoDAF Operational View - High-Level Operational Concept Graphic
2900
2901 **OV-2/5**
2902 DoDAF Operational View – Combined Operational Node Connectivity Description and
2903 Operational Activity Model
2904
2905 **OV-3**
2906 DoDAF Operational View – Operational Information Exchange Matrix
2907
2908 **OV-4**
2909 DoDAF Operational View - Organizational Relationships Chart
2910
2911 **OV-5**
2912 DoDAF Operational View - Operational Activity Model
2913
2914 **OV-6a**
2915 DoDAF Operational View - Operational Rules Model
2916
2917 **OV-6c**
2918 DoDAF Operational View - Operational Event-Trace Description
2919

2920 **OV-7**
2921 DoDAF Operational View - Logical Data Model
2922
2923 **PA&E**
2924 Program Analysis and Evaluation
2925
2926 **PCA**
2927 Pre-Certification Authority
2928
2929 **PDA**
2930 Personal Digital Assistant
2931
2932 **PEO**
2933 Program Executive Office(r)
2934
2935 **PfM**
2936 Portfolio Management
2937
2938 **PM**
2939 Program Manager
2940
2941 **POM**
2942 Program Objective Memorandum
2943
2944 **PPBE**
2945 Planning, Programming, Budgeting, and Execution
2946
2947 **QDR**
2948 Quadrennial Defense Review
2949
2950 **RDT&E**
2951 Research, Development, Test and Evaluation
2952
2953 **SASA-BT**
2954 Special Assistant Secretary of the Army – Business Transformation
2955
2956 **SECDEF**
2957 Secretary of Defense
2958
2959 **SNAP-IT**
2960 Selective and Native Programming Data Collection System – Information Technology
2961
2962 **SoS**
2963 System of Systems
2964
2965 **SV**

2966   System View (DoDAF)
2967
2968   **SV-1**
2969   DoDAF System View - Systems Interface Description
2970
2971   **SV-4**
2972   DoDAF System View - Systems Functionality Description
2973
2974   **SV-5**
2975   DoDAF System View – Operational Activity to Systems Function Traceability Matrix
2976
2977   **SV-6**
2978   DoDAF System View - Systems Data Exchange Matrix
2979
2980   **SV-8**
2981   DoDAF System View - Systems Evolution Description (Transition Plan)
2982
2983   **TV**
2984   Technical View (DoDAF)
2985
2986   **TV-1**
2987   DoDAF Technical View - Technical Standards Profile
2988
2989   **USC**
2990   United States Code
2991
2992   **USD (AT&L)**
2993   Under Secretary of Defense for Acquisition, Technology and Logistics
2994
2995   **USD (C)**
2996   Under Secretary Defense (Comptroller)
2997
2998   **USD (P&R)**
2999   Under Secretary of Defense for Personnel and Readiness
3000
3001   **WMA**
3002   Warfighting Mission Area
3003
3004   **WSLM**
3005   Weapon System Lifecycle Management
3006
3007
3008   **Section II**
3009   **Terms**
3010
3011   **Acquisition**

3012   The acquiring by contract with appropriated funds of supplies or services (including
3013   construction) by and for the use of the Federal Government through purchase or lease, whether
3014   the supplies or services are already in existence or must be created, developed, demonstrated,
3015   and evaluated. Acquisition begins at the point when agency needs are established and includes
3016   the description of requirements to satisfy agency needs, solicitation and selection of sources,
3017   award of contracts, contract financing, contract performance, contract administration, and those
3018   technical and management functions directly related to the process of fulfilling agency needs by
3019   contract.
3020
3021   **Acquisition Category**
3022   Categories established to facilitate decentralized decision-making and execution, and compliance
3023   with statutorily imposed requirements. The categories determine the level or review, decision
3024   authority and applicable procedures. Specific categories are defined below:
3025
3026   **ACAT IA**
3027   Programs which are Major Automated Information Systems (MAIS) or programs designated
3028   by ASD (NII) to be ACAT IA. The Milestone Decision Authority is the DoD CIO. (3)
3029
3030   **ACAT IAM**
3031   Is a sub-category of ACAT IA and is a program for which the Milestone Decision Authority
3032   (MDA) is the DoD Chief Information Officer (CIO). (3)
3033
3034   **ACAT IAD**
3035   A MDA designated special interest program or a program that will require an eventual total
3036   expenditure for research, development, test and evaluation (RDT&E) of more than $365M.
3037   (3)
3038
3039   **Application**
3040   A software program that performs a specific function directly for a user and can be executed
3041   without access to system control, monitoring or administrative privileges.
3042
3043   **Architecture**
3044   The structure of components, their relationships, and the principles and guidelines governing
3045   their design and evolution over time.
3046
3047   **Army Business Enterprise Architecture (ABEA)**
3048   The framework of the business processes and organizations that support the Army's warfighters.
3049
3050   **Army Enterprise Architecture (AEA)**
3051   A disciplined, structured, comprehensive, and integrated methodology and framework that
3052   encompasses all Army information requirements, technical standards, and systems descriptions
3053   regardless of the information system's use. The AEA transforms operational visions and
3054   associated required capabilities of the warfighters into a blueprint for an integrated and
3055   interoperable set of information systems that implements horizontal information technology
3056   insertion, cutting across the functional stove-pipes and Service boundaries. The AEA is the
3057   combined total of all the Army's Operational, Technical, and System Architectures.

3058
3059   **Army Information Technology Registry**
3060   The Army's enterprise data-base of record for information systems. The AITR is the source of
3061   the Army's data for input to the DoD Information Technology Registry. The AITR is one of the
3062   four submodules in the Army Portfolio Management Solution (APMS).
3063
3064   **Army Standard System**
3065   A system that is standard across the Army.
3066
3067   **Artifact**
3068   An Artifact is a graphical object that provides support information about the Process or the
3069   elements within the Process and it does not directly affect the flow of the Process.
3070
3071   **Attribute**
3072   An Attribute is a property or characteristic that is common to some or all of the instances of a
3073   data Entity. For the Business Enterprise Architecture, an Attribute refers to the type of
3074   information DoD wants to retain about an Entity.
3075
3076   **Automated Information System (AIS) Application**
3077   For DoD information assurance purposes, an AIS application is the product or deliverable of an
3078   acquisition program, such as those described in DODD 5000.1, "The Defense Acquisition
3079   System," May 12, 2003; Certified Current as of November 24, 2003. An AIS application
3080   performs clearly defined functions for which there are readily identifiable security considerations
3081   and needs that are addressed as part of the acquisition. An AIS application may be a single
3082   software application (e.g., Integrated Consumable Items Support); multiple software applications
3083   that are related to a single mission (e.g., payroll or personnel); or a combination of software and
3084   hardware performing a specific support function across a range of missions (e.g., Global
3085   Command and Control System, Defense Messaging System). AIS applications are deployed to
3086   enclaves for operations, and have their operational security needs assumed by the enclave. Note
3087   that an AIS application is analogous to a "major application" as defined in OMB Circular A-130,
3088   "Management of Federal Information Resources, Transmittal 4," November 30, 2000; however,
3089   this term is not used in order to avoid confusion with the DoD acquisition category of Major
3090   Automated Information System.
3091
3092   **Below Major Command**
3093   Systems which are not DoD-wide, Joint, Multi-Component, Component Standard Systems or
3094   Major Command Standard systems. Includes bridges (systems that interface between two or
3095   more other systems), uniques, and systems used at a single site.
3096
3097   **Bridge**
3098   Systems that interface between two or more other systems.
3099
3100   **Business Capability**
3101   The ability to execute a specific course of action and can be a single business enabler or a
3102   combination of business enablers – business process, people, tools or systems and information –
3103   that assists an organization in delivering value to its customers.

3104
3105   **Business Enterprise Architecture (BEA)**
3106   The Business Enterprise Architecture is a blueprint to guide and constrain investments in DoD
3107   organization, operations, and systems as they relate to or impact business operations. It will
3108   provide the basis for planning, development, and implementation of business management
3109   systems that comply with Federal mandates and requirements, and will produce accurate,
3110   reliable, timely, and compliant information for DoD staff.
3111
3112   **Business Mission Area (BMA) IT PfM**
3113   Business Mission Area IT Portfolio Management addresses all portfolio management activities
3114   in the DoD Business Mission Area.
3115
3116   **Business Process**
3117   A Business Process is displayed within a Business Process Diagram (BPD). A Business Process
3118   contains one or more Processes.
3119
3120   **Business Process Diagram (BPD)**
3121   A Business Process Diagram is the diagram specified by Business Process Modeling Notation.
3122   Business Process Diagram uses graphical elements and semantics to support elements defined in
3123   this specification.
3124
3125   **Business System**
3126   A budgetary, strategic planning, accounting, finance, financial management, logistics,
3127   acquisition, human resources, real property/ personal property, mixed information system
3128   supporting financial and non-financial functions, or any information system that accepts or
3129   creates a transaction that results in a financial event or maintains the source data for a financial
3130   event for the DoD.
3131
3132   **Business System Modernization**
3133   The acquisition or development of a new defense business system, or any significant
3134   modernization or enhancement of an existing defense business system other than necessary to
3135   maintain current services)
3136
3137   **Capability**
3138   The highest level category of operational functions that provide the ability to accomplish a
3139   mission. "The ability to execute a specified course of action. It is defined by an operational user
3140   and expressed in broad operational terms in the format of an initial capabilities document or a
3141   DOTMLPF change recommendation. In the case of material proposals, the definition will
3142   progressively evolve to DOTMLPF performance attributes identified in the CDD and the CPD."
3143   (CJCSI 6212.01D)
3144   In the context of the AEA framework, a capability satisfies a requirement, specifically an IT
3145   requirement. For example, an Army headquarters element has the requirement to know the
3146   location of all friendly and enemy units in its area of operations; situational awareness is the
3147   capability that satisfies that requirement.
3148
3149   **Capability Area**

3150   Collections of similar capabilities that are grouped at a high level in order to support decision-
3151   making, capability delegation, and analysis.
3152

3153   **Capital Planning and Investment Management (CPIM)**
3154   The CPIM process is to develop C4/IT investment policy and strategic direction that informs
3155   Army leaders and directly impacts their POM decisions on all C4/IT expenditures across all
3156   functional domains. The CPIM process is collaborative among C4/IT stakeholders, with a focus
3157   on C4/IT across the Army (to include all functional domains) throughout the life cycle of IT
3158   expenditures and the management of IT assets.
3159

3160   **Commercial-Off-The-Shelf (COTS)**
3161   COTS standards and customized software products or suites of products (e.g. featuring
3162   integration and/or bundling) used to perform typical office information processing functions and
3163   increase office productivity.
3164

3165   **Community of Interest (COI)**
3166   A collection of people who exchange information using a common vocabulary in support of
3167   shared missions, business processes, and objectives. The community is made up of the
3168   users/operators who participate in the information exchange, the system builders who develop
3169   computer systems for these users, and the functional proponents who define requirements and
3170   acquire systems on behalf of the users.
3171

3172   **Component**
3173   DoD component that is the originator of the funding source. DoD Components are defined to be
3174   the Office of the Secretary of Defense, the Military Departments, the Chairman of the Joint
3175   Chiefs of Staff, the combatant commands, the Office of the Inspector General of the Department
3176   of Defense, the Defense agencies, and the DoD field activities, and all other organizational and
3177   operational entities within the DoD.
3178

3179   **Computer Network**
3180   The constituent element of an enclave responsible for connecting computing environments by
3181   providing short-haul data transport capabilities such as local or campus area networks, or long-
3182   haul data transport capabilities such as operational, metropolitan, or wide area and backbone
3183   networks.
3184

3185   **Core System**
3186   An existing system, a system in development, or a system beginning the acquisition process that
3187   is/will become the Department's solution for a given capability(ies), as designated by the
3188   CBMA.
3189   COTS Office Automation Software Products/Suites COTS software products or suites of
3190   products used to perform typical office information processing functions and increase office
3191   productivity.
3192

3193   **Criteria**
3194   Standards, measures, and/or expectations used in making an evaluation and/or verification.
3195

3196 **Data**
3197 Data is a representation of an individual fact, concept, or instruction in a manner suitable for
3198 communication, interpretation, or processing by humans or by automatic means.
3199
3200 **Data Element**
3201 A Data Element represents information required to support a process. Data elements are defined
3202 in the Integrated Dictionary (AV-2) and referenced in the Logical Data Model (OV-7) and the
3203 Process Model (OV-6c) and other diagrams. In the BEA, the same information is always
3204 conveyed through the same agreed-upon named data element regardless of which process or
3205 activity sends or receives the information.
3206
3207 **Data Management Initiatives**
3208 These include the policy, procedures and mechanism that ensure visibility, accessibility,
3209 semantic interoperability and metadata tagging of data.
3210
3211 **Data Model**
3212 A Data Model is a graphical and textual representation of analysis that identifies the data needed
3213 by an organization to achieve its mission, functions, goals, objectives, and strategies and to
3214 manage and rate the organization. A data model identifies the entities, attributes, and
3215 relationships (or associations) with other data, and provides the conceptual view of the data and
3216 the relationships among data.
3217
3218 **Data Object**
3219 A Data Object represents a set of data elements that can be associated with a sequence flow or a
3220 process step (activity) in a Process Model.
3221
3222 **Data Store (or Data Warehouse)**
3223 A data store or data warehouse is a static database that contains historical data, and is strictly
3224 used for data analysis (e.g. trends).
3225
3226 **Domain**
3227 An area of common operational and functional requirements. A subset of Mission Areas that
3228 represent a common collection of related, or highly dependent, information capabilities and
3229 services. The Domain manages portfolios of information capabilities and services.
3230
3231 **Enclave**
3232 A collection of computing environments connected by one or more internal networks under the
3233 control of a single authority and security policy, including personnel and physical security.
3234 Enclaves always assume the highest mission assurance category and security classification of the
3235 AIS applications or outsourced IT-based processes they support, and derive their security needs
3236 from those systems. They provide standard IA capabilities such as boundary defense, incident
3237 detection and response, and key management, as well as common applications such as office
3238 automation and electronic mail.
3239
3240 **End-to-End Process**

3241   The End-to-End Process is the scope of the business area under examination; characterized by an
3242   essential business event, result, and process that broadly connect them (for example, Order to
3243   Cash). An End-to-End Process typically includes a number of component business processes to
3244   support it (for example, Order to Cash usually includes Customer Acquisition, Order
3245   Management, Order Fulfillment, and Account Receivable) and usually includes processes that
3246   span component processes (for example, Order Returns).
3247
3248   **Enterprise**
3249   Refers to the Department of Defense, including all of its organizational entities.
3250
3251   **Enterprise Architecture**
3252   A DoD-wide architecture that depicts warfighting and business Domains.
3253   The explicit description of the current and desired relationships among business and
3254   management processes and IT. An enterprise architecture describes the "target" situation that the
3255   agency wishes to create and maintain by managing its IT portfolio.
3256
3257   **Enterprise Data Model**
3258   The Enterprise Data Model provides an integrated model of the data pertinent to the DoD
3259   business Domains. It aims to provide a record of accurate and meaningful business data
3260   definitions, and identify valid, consistent business data structures that contain information to run
3261   and manage the business. The purposes of the BEA Enterprise Data Model are to:
3262   • provide a single development base and promote the integration of existing applications where
3263   appropriate
3264   • serve as a data reference architecture to support the sharing of data across the DoD Business
3265   Domains
3266   • enable effective management of data resources by providing a single set of consistent data
3267   definitions, and,
3268   • support the creation and maintenance of BMA enterprise-wide data
3269   The Enterprise Data Model encompasses two distinct views, a conceptual view that reflects a
3270   high-level overview, and a logical view that provides additional details of the data pertinent to
3271   DoD business Domains.
3272
3273   **Enterprise Information Environment (EIE)**
3274   The common, integrated information computing and communications environment of the GIG.
3275   The EIE is composed of GIG assets that operate as, provide transport for and/or assure local area
3276   networks, campus area networks, tactical operational and strategic networks, metropolitan area
3277   networks, and wide area networks. The EIE includes computing infrastructure for the automatic
3278   acquisition, storage, manipulation, management, control, and display of data or information, with
3279   a primary emphasis on DoD enterprise hardware, software operating systems, and hardware /
3280   software support that enable the GIG enterprise. The EIE also includes a common set of
3281   enterprise services, called Core Enterprise Services, which provide awareness of, access to, and
3282   delivery of information on the GIG.
3283
3284   **Enterprise Portals**

3285   A web site or service that offers a broad array of resources and services, such as e-mail, forums,
3286   search engines, on-line self-service applications, security, directory, profiling, taxonomy,
3287   application integration.
3288
3289   **Enterprise Process**
3290   Enterprise processes are those end-to-end groupings of integrated and interrelated functions
3291   across Domain and Mission Areas that provide mission-critical capabilities to the warfighter, and
3292   form the basis for the enterprise architecture.
3293
3294   **Enterprise Process Owners**
3295   Key decision makers on Army Enterprise process issues; interface with the Mission Area and
3296   Domain Leads to conduct Portfolio Management of process enablers; approve end-to-end
3297   process scenarios to facilitate design and implementation of process capabilities; and champion
3298   the use of Enterprise Solutions as process enablers.
3299
3300   **Entity**
3301   A data Entity is defined as a representation of a set of real or abstract things (people, objects,
3302   places, events, ideas, or a combination of things, etc.) that are recognized as the same type,
3303   because they share the same characteristics and can participate in the same relationships. For
3304   BEA purposes, a data entity is a kind of object that the DoD uses to retain information.
3305
3306   **Extract**
3307   Access data from a specified source database and extracts a desired subset of data.
3308
3309   **Family of Systems**
3310   A set or arrangement of independent systems that can be arranged or interconnected in various
3311   ways to provide different capabilities. The mix of systems can be tailored to provide desired
3312   capabilities dependent on the situation.
3313
3314   **Financial and "mixed" systems**
3315   The term "mixed system" means an information system that supports both financial and non-
3316   financial functions of the Federal government or components thereof. Refer to Circular A-127 or
3317   A-130 requires that executive agencies develop and maintain an agency wide inventory of
3318   financial management systems and ensure that appropriate assessments of these systems are
3319   conducted. These Circulars applies to financial management systems, which includes financial
3320   and mixed systems.
3321
3322   **Focus Area**
3323   Definition of the concentration point for portfolio evaluation used to slice and dice the portfolio
3324   perspective (e.g. ERP, gaps, redundancies).
3325
3326   **Global Information Grid (GIG)**
3327   The globally connected, end-to-end set of information capabilities, associated processes, and
3328   personnel for collecting, processing, storing, disseminating, and managing information on
3329   demand to warfighters, policy makers, and support personnel.
3330

3331 **Governance**
3332 The process through which organizations make strategic decisions, determine whom they
3333 involve and demonstrate accountability for the results of their actions. The process of
3334 governance relies on a system or framework – to include Federal statutes; DoD and Army
3335 directives, policies or guidelines; steering committees or groups; and performance measures – to
3336 define how the process is supposed to function in a particular setting. Cultural traditions,
3337 accepted practices, and codes of conduct are also instrumental in influencing the governance
3338 process.   Ideally, the governance process achieves agreement between differing interests to
3339 reach a broad consensus on what is in the best interest of the enterprise.
3340

3341 **Information**
3342 Any communication or representation of knowledge such as facts, data, or opinion in any
3343 medium or form, including textual, numerical, graphic, cartographic, or narrative.
3344

3345 **Information Assurance (IA)**
3346 Measures that protect and defend information and information systems by ensuring their
3347 availability, integrity, authentication, confidentiality, and non-repudiation. This includes
3348 providing for restoration of information systems by incorporating protection, detection, and
3349 reaction capabilities.
3350

3351 **Information Life Cycle**
3352 The stages through which information passes, typically characterized as creation or collection,
3353 processing, dissemination, use, storage, and disposition.
3354

3355 **Information Management**
3356 The planning, budgeting, manipulating, and controlling of information throughout its life cycle.
3357

3358 **Information Resources**
3359 Information and related resources, such as personnel, equipment, funds, and information
3360 technology.
3361

3362 **Information Resources Management**
3363 The process of managing information resources to accomplish Agency missions and to improve
3364 Agency performance, including through the reduction of information collection burdens on the
3365 public.
3366

3367 **Information System**
3368 Any equipment or interconnected system or subsystems of equipment that is used in the
3369 automatic acquisition, storage, manipulation, management, movement, control, display,
3370 switching, interchange, transmission, or reception of data and that includes computer software,
3371 firmware, and hardware. Included are computers, word processing systems, networks, or other
3372 electronic information handling systems and associated equipment.
3373

3374 **Information Technology (IT)**
3375 Any equipment or interconnected system or subsystem of equipment that is used in the automatic
3376 acquisition, storage, manipulation, management, movement, control, display, switching,

3377   interchange, transmission, or reception of data or information by the DoD Component. For the
3378   purposes of the preceding sentence, equipment is used by a DoD Component if the equipment is
3379   used by the DoD component directly or is used by a contractor under a contract with the DoD
3380   component that (1) requires that use of such equipment, or (2) requires the use, to a significant
3381   extent of such equipment in the performance of a service or the furnishing of a product. The
3382   term "information technology" includes computers, ancillary equipment, software, firmware, and
3383   similar procedures, services (including support services), and related sources. For purposes of
3384   the preceding sentence, equipment is used by an executive agency (DoD) or if the equipment is
3385   used directly by the DoD or is used by a contractor under a contract with the executive agency
3386   (DoD) which requires the use of such equipment or requires the use, to a significant extent, of
3387   such equipment in the performance of a service or the furnishing of a product. The term
3388   "information technology" does not include any equipment that is acquired by a Federal
3389   contractor incidental to a Federal contract.
3390

3391   **Information Technology (IT) Investment**
3392   The development and sustainment resources needed in support of IT or IT-related initiatives
3393   (e.g., applications, programs, projects, services, studies, systems, telecommunications, tools and
3394   system support service contracts). These resources include, but are not limited to: research,
3395   development, test and evaluation (RDT&E) appropriations; procurement appropriations; military
3396   personnel (MILPERS) appropriations; operations and maintenance (O&M) appropriations; and
3397   Defense Working Capital Fund (DWCF).
3398

3399   **Information Technology (IT) Labor Skill**
3400   Any human resource used to perform information technology requirements.
3401

3402   **Information Technology (IT) Portfolio**
3403   A grouping of IT investments by capability to accomplish a specific functional goal, objective,
3404   or mission outcome.
3405

3406   **Information Technology (IT) System**
3407   Set of information resources organized for the collection, storage, processing, maintenance, use,
3408   sharing, dissemination, disposition, display, or transmission of information. Any Acquisition
3409   Category (ACAT) system that meets these criteria, anything categorized as a National Security
3410   System (NSS) or a Mission Assurance Category (MAC) level is, by definition, considered to be
3411   an IT system.   Other types of IT systems include:
3412   • DoD-wide, Joint systems
3413   • Federal System used by DoD or supported by DoD
3414   • DoD System used as a Federal System
3415   • Multi- System
3416   • Standard System
3417   • Major Command Standard System (Echelon 2 or equivalent for Navy and Marine Corps)
3418   • Below Major Command System (below Echelon 2 or equivalent for Navy and Marine Corps)
3419   (e.g., bridges, unique used at a single site)
3420   • Data Stores/Data Warehouses
3421   • Enclaves
3422   • Portals (Enterprise)

3423   • Automated Information System (AIS) Application
3424
3425   **Infrastructure**
3426   The term is used with different contextual meanings. It most generally relates to and has a
3427   hardware orientation, but it is frequently more comprehensive and includes software and
3428   communications. Collectively, the structure must meet the performance requirements of and
3429   capacity for data and application requirements. It includes processors, operating systems, service
3430   software, and standards profiles that include network diagrams showing communication links
3431   with bandwidth, processor locations, and capacities to include hardware builds versus schedule
3432   and costs.
3433
3434   **Initiative**
3435   Initiatives are IT systems, programs, projects, organizations, activities or family of systems.
3436
3437   **Integration**
3438   The process of making or completing by adding or fitting together into an agreed framework
3439   (architecture) the information requirements, data, applications, hardware, and systems software
3440   required to support the Army in peace, transition, and conflict.
3441
3442   **Interim System**
3443   An existing system or system in development, as designated by the CBMA, that supports the
3444   Department for a given capability during a limited period of time until the core system is
3445   deployed.
3446
3447   **Internal Script**
3448   A series of commands, launched by a single action, performed by the client.
3449
3450   **Interoperability**
3451   The ability of two or more systems, units, forces, or physical components to exchange and use
3452   information. The conditions achieved among communications-electronics systems or items of
3453   communications-electronics equipment when information or services can be exchanged directly
3454   and satisfactorily.
3455
3456   **IT Capital Planning and Investment Control (CPIC)**
3457   An end-to-end integrative process that frames and manages the life cycle of an IT investment. Its
3458   purpose is to maximize the value and assess and manage the risks of the IT acquisitions of the
3459   Army. The process includes the selection, management, and evaluation of IT investments.
3460
3461   **IT Portfolio**
3462   A grouping of IT investments by capability to accomplish a specific functional goal, objective,
3463   or mission outcome.
3464
3465   **IT Investment Portfolio**
3466   A collection of IT investments that represents the best balance of costs, benefits, and risks and is
3467   designed to improve the overall organizational performance and maximize mission performance.
3468

3469 **IT that is not part of the Global Information Grid(GIG)**
3470 Generally, stand-alone, self-contained, or embedded IT that is not and shall not be connected to
3471 the enterprise network.
3472
3473 **Joint**
3474 Connotes activities, operations, organizations, etc., in which elements of two or more Military
3475 Departments participate. (Joint Pub 1-02)
3476
3477 **Lean / Six Sigma**
3478 An improvement methodology and mindset that integrates Lean concepts (increase speed, reduce
3479 waste) and Six Sigma concepts (reduce variation, improve quality) that enable organizational
3480 transformation at all levels.
3481
3482 **Legacy System**
3483 An existing system that is designated for closure when the capability is absorbed by an interim or
3484 core system, or an existing system without any designation yet made.
3485
3486 **Major Automated Information System or Project (MAIS)**
3487 An AIS acquisition program that is (1) designated by ASD(C3I) as a MAIS, or (2) estimated to
3488 require program costs in any single year in excess of 30 million in fiscal year (FY) 1996 constant
3489 dollars, total program costs in excess of 120 million in FY 1996 constant dollars, or total life-
3490 cycle costs in excess of 360 million in FY 1996 constant dollars. MAISs do not include highly
3491 sensitive classified programs (as determined by the Secretary of Defense). For the purpose of
3492 determining whether an AIS is a MAIS, the following shall be aggregated and considered a
3493 single AIS: (1) the separate AISs that constitute a multi-element program; (2) the separate AISs
3494 that make up an evolutionary or incrementally developed program; or (3) the separate AISs that
3495 make up an a multi-component AIS program.
3496
3497 **Major Command Standard**
3498 A system that is standard across a Major Command.
3499
3500 **Management Decision Evaluation Package (MDEP)**
3501 An 8-year package of dollars and manpower to support a given program or function. The BIP is
3502 the first 3 budget and execution years of the MDEP and the PDIP is the 5 program years
3503 following.
3504
3505 **Metrics**
3506 The elements of a measurement system consisting of key performance indicators, measures, and
3507 measurement methodologies.
3508
3509 **Mission Area (MA)**
3510 A defined area of responsibility with functions and processes that contribute to mission
3511 accomplishment.
3512
3513 **Mission Assurance Category**

3514   Applicable to DoD information systems, the mission assurance category reflects the importance
3515   of information relative to the achievement of DoD goals and objectives, particularly the
3516   warfighters' combat mission. Mission assurance categories are primarily used to determine the
3517   requirements for availability and integrity. The Department of Defense has three defined
3518   mission assurance categories.
3519

3520   Mission Assurance Category I (MAC I)
3521   Systems handling information that is determined to be vital to the operational readiness or
3522   mission effectiveness of deployed and contingency forces in terms of both content and
3523   timeliness. The consequences of loss of integrity or availability of a MAC I system are
3524   unacceptable and could include the immediate and sustained loss of mission effectiveness.
3525   Mission Assurance Category I systems require the most stringent protection measures. (6)
3526

3527   Mission Assurance Category II (MAC II)
3528   Systems handling information that is important to the support of deployed and contingency
3529   forces. The consequences of loss of integrity are unacceptable. Loss of availability is difficult to
3530   deal with and can only be tolerated for a short time. The consequences could include delay or
3531   degradation in providing important support services or commodities that may seriously impact
3532   mission effectiveness or operational readiness. Mission Assurance Category II systems require
3533   additional safeguards beyond best practices to ensure assurance. (6)
3534

3535   Mission Assurance Category III (MAC III)
3536   Systems handling information that is necessary for the conduct of day-to-day business, but does
3537   not materially affect support to deployed or contingency forces in the short-term. The
3538   consequences of loss of integrity or availability can be tolerated or overcome without significant
3539   impacts on mission effectiveness or operational readiness. The consequences could include the
3540   delay or degradation of services or commodities enabling routine activities. Mission Assurance
3541   Category III systems require protective measures, techniques, or procedures generally
3542   commensurate with commercial best practices. (6)
3543

3544   Mission Critical Information System
3545   A system that meets the definitions of "information system" and "national security system" the
3546   loss of which would cause the stoppage of warfighter operations or direct mission support of
3547   warfighter operations. (Note: The designation of mission critical shall be made by a DoD
3548   Component Head, a Combatant Commander, or their designee. A financial management
3549   Information Technology (IT) system shall be considered a mission-critical IT system as defined
3550   by the Under Secretary of Defense (Comptroller).) A "Mission-Critical Information Technology
3551   System" has the same meaning as a "Mission-Critical Information System"
3552

3553   Mission Essential Information System
3554   A system that meets the definition of "information system" that the acquiring DoD Component
3555   Head or designee determines is basic and necessary for the accomplishment of the organizational
3556   mission. (Note: The designation of mission essential shall be made by a DoD Component Head,
3557   a Combatant Commander, or their designee. A financial management IT system shall be
3558   considered a mission-essential IT system as defined by the Under Secretary of Defense

3559   (Comptroller) a "Mission-Essential Information Technology System" has the same meaning as a
3560   "Mission-Essential Information System.
3561

3562   **Mission Support Information System**
3563   System that is not defined as mission critical or mission essential.
3564

3565   **Model**
3566   A conceptual framework of standards for communication in the network across different
3567   equipment and applications by different vendors.
3568

3569   **Modernization**
3570   All costs, of any type of funding, incurred to design, develop, implement/deploy and/or
3571   functionally enhance/technically upgrade an information technology system. These costs
3572   include, but are not limited to, personnel, equipment, software, supplies, and contracted services
3573   from private sector providers, space occupancy, and intra-agency services from within the
3574   agency and inter-agency services from other Federal agencies. Does not include sustainment
3575   costs. Sources, OMB A-11, A-130.
3576

3577   **Module**
3578   A distinct element of a "system" that CANNOT stand alone outside of its system's environment.
3579

3580   **National Security Systems (NSS)**
3581   Any telecommunications or information system operated by the United States Government, the
3582   function, operation, or use of which involves intelligence activities; involves cryptologic
3583   activities related to national security; involves command and control of military forces; involves
3584   equipment that is an integral part of a weapon or weapons system; or is critical to the direct
3585   fulfillment of military or intelligence missions, but excluding any system that is to be used for
3586   routine administrative and business applications (including payroll, finance, logistics, and
3587   personnel management applications).
3588

3589   **Net-Centricity**
3590   A global, web-enabled environment which ensures user-focused information sharing,
3591   information fusion, sense making, and decision-making across the Battlespace; and makes it
3592   possible to move beyond traditional communities of interest, such as command and control or
3593   intelligence, to full cross-functional information exchange across the Battlespace.
3594

3595   **Network**
3596   Communications medium and all components attached to that medium whose function is the
3597   transfer of information.
3598

3599   **Open Database Connectivity Object (ODBC)**
3600   An open standard application programming interface (API) for accessing a database allowing
3601   access to files in a number of different databases (i.e. Access, dBase, DB2, Excel, Text, etc.).
3602

3603   **Operational Architecture**

3604 Descriptions of the tasks, operational elements, and information flows required to accomplish or
3605 support a function.
3606
3607 **Opportunity Set**
3608 Potential IT solutions to business capability requirements based on a capability or groups of
3609 capabilities which produce the best solution for achieving the identified business capability
3610 requirements.
3611
3612 **Performance Measure**
3613 A quantitative or qualitative characterization of performance.
3614
3615 **Performance Measurement**
3616 A process of accessing progress toward achieving predetermined goals, including information on
3617 the efficiency with which resources are transformed into goods and services (outputs), the
3618 quality of those outputs (how well they are delivered to clients and the extent they are satisfied),
3619 and outcomes (the results of a program activity compared to its specific contributions to program
3620 objectives.
3621
3622 **Peripheral Equipment**
3623 Any of a variety of devices that are attached to a computer (i.e. auxiliary storage units, storage
3624 units, disk drives, drum drives, magnetic storage devices, optical storage devices, recorders, tape,
3625 monitors, keyboards, etc.).
3626
3627 **Personal Digital Assistant (PDA)**
3628 Mobile computing devices such as laptops, handhelds, and personal digital assistants operating
3629 in either wired or wireless mode, or other information technologies as may be developed.
3630
3631 **Planning, Programming, Budgeting, and Execution (PPBE) process**
3632 The process for justifying, acquiring, allocating, and tracking resources in support of Army
3633 missions.
3634
3635 **Portal**
3636 Portals provide a single web "location" from which many services and communications systems
3637 are accessed. May also be the establishment of a single secure web access point from which
3638 applications and information may be distributed. To enable enterprise portal services there must
3639 be: Web services, a global directory service, and PKI.
3640
3641 **Portfolio**
3642 The group of capabilities, resources, management, and related investments that are required to
3643 accomplish a mission-related or administrative outcome. A portfolio includes outcome
3644 performance measures (mission, functional or administrative measures) and an expected return
3645 on investment. For purposes of this definition, "resources" consists of people, money, facilities,
3646 weapons, information technology, other equipment, logistics support, services and information,
3647 and "management" consists of strategic planning, capital planning, governance, process
3648 improvements, performance metrics/measures, requirements generation,
3649 acquisition/development and operations.

3650
3651 **Portfolio Management**
3652 The management of selected groupings of IT investments using strategic planning, architectures,
3653 and outcome-based performance measures to achieve a mission capability.
3654
3655 **Process**
3656 An ordered sequence of events involving people, materials, energy, and equipment that is
3657 designed to achieve a defined business outcome. A process is depicted as a network of flow
3658 objects, which are a set of activities and the controls that sequence them. A group of logically
3659 related decisions and activities required to manage the resources of the Army. A business
3660 process is a specific ordering of work activities across time and place, with a beginning, an end,
3661 and clearly defined inputs and outputs that deliver value to customers.
3662
3663 **Process owners**
3664 HQDA functional proponents, MACOMs, and others who have responsibility for any mission-
3665 related or administrative work process.
3666
3667 **Redundant**
3668   *a.* Exceeding what is necessary or normal (superfluous); characterized by or containing an
3669 excess, specifically using more words than necessary; characterized by similarity or repetition
3670   *b.* Serving as a duplicate for preventing failure of an entire system (as a spacecraft) upon
3671 failure of a single component
3672   *c.* Unnecessary duplication of capabilities, investments, processes, systems, programs and
3673 other entities identified by gap and overlap analysis.
3674
3675 **Reference Business Process Model (RBPM)**
3676 The Reference Business Process Model identifies taxonomy of DoD business macro processes,
3677 sub-processes that comprise them, and related process threads for Business Management
3678 Modernization Program.
3679
3680 **Relationship**
3681 A Relationship determines associations between data entities, categorized as identifying/non-
3682 identifying, specific/non-specific or categorizing, and identified in terms of cardinality and
3683 optionality. Relationships express and enforce business rules that govern the behavior and
3684 dependence of data.
3685
3686 **Report**
3687 An organized view that sort a collection of data, prepared for viewing or printing from multiple
3688 records.
3689
3690 **Software**
3691 A set of computer programs, procedures, and associated documentation concerned with the
3692 operation of a data processing system (for example, compiler, library routines, manuals, circuit
3693 diagrams); usually contrasted with hardware.
3694
3695 **Stove-pipe**

3696   An entity, i.e., a system, organization, process, etc., whose design does not support effective
3697   information sharing or leveraging of capabilities with other, related entities.
3698

3699   **Stovepipe Application**
3700   A stand-alone program. An application that does not integrate with or share data or resources
3701   with other applications.
3702

3703   **Stovepipe System**
3704   Non-interoperable domain application with services developed and deployed using disparate
3705   architectural frameworks. Interoperability was never designed into the system.
3706

3707   **SubDomain**
3708   A subset of Domains that represent a common collection of related, or highly dependent,
3709   information capabilities and services. The SubDomain manages portfolios of information
3710   capabilities and services.
3711

3712   **Sub-Portfolio**
3713   The allocation of business systems within a defined boundary. The boundary for a sub-portfolio
3714   may be defined by a specific service/agency, process owner, executive agent, etc.
3715

3716   **Sub-System**
3717   A distinct element of a "system" that CAN stand alone outside of its system's environment.
3718

3719   **System**
3720   A set of information resources organized for the collection, storage, processing, maintenance,
3721   use, sharing, dissemination, disposition, display, or transmission of information. An organized
3722   assembly of resources and procedures united and regulated by interaction or interdependence to
3723   accomplish a set of specific functions (see JCS 1–02). Within the context of the Army Enterprise
3724   Architecture, systems are people, machines and methods organized to accomplish a set of
3725   specific functions; provide a capability or satisfy a stated need or objective; or produce, use,
3726   transform, or exchange information. For the purpose of reporting to the Army Information
3727   Technology Registry, the terms "application" and "system" are used synonymously—a discrete
3728   set of information resources organized for the collection, processing, maintenance, use, sharing,
3729   dissemination or disposition of information (that is, the application of IT).
3730

3731   **System Data Exchange**
3732   A Systems Data Exchange is the movement of data between the entity, the process, and the data
3733   store. Data flow portrays the interface between components of the Data Flow Diagram (DFD).
3734   The flow of data in a DFD is named to reflect the nature of the data used (these names should
3735   also be unique within a specific DFD. An arrow represents data flow and the arrow annotates
3736   the direction of data flow.
3737

3738   **System Entity**
3739   A logical grouping of system functions that have a high affinity for each other in terms of the
3740   data they manage and which address the processing requirements of a definable business

3741   application. A system entity logically organizes a set of system functions into a cohesive group
3742   of common functionality.
3743
3744   **System Function**
3745   Each component of a system entity that manipulates inputs to produce desired outputs in
3746   accordance with established business rules is referred to as a system function. System functions
3747   represent processes performed by people, machines, or a combination of both and may be
3748   depicted on the SV-4 diagram as a circle (those which are internal to the process described by
3749   the diagram title) or a rectangle (those which are external to the process described in the diagram
3750   title).The process is the manipulation or work that transforms data, performing computations,
3751   making decisions (logic flow), or directing data flows based on business rules. In other words, a
3752   process receives input and generates some output. Process names (simple verbs and data flow
3753   names, such as "Submit Payment" or "Get Invoice") usually describe the transformation, which
3754   can be performed by people or machines. Processes can be drawn as circles or a segmented
3755   rectangle on a Date Flow Diagram, and include a process name and process number.
3756
3757   **System of Systems (SoS)**
3758   A set or arrangement of interdependent systems that are related or connected to provide a given
3759   capability. The loss of any part of the system will degrade the performance or capabilities of the
3760   whole. An example of a SoS system could be interdependent information systems. While
3761   individual systems within the SoS may be developed to satisfy the peculiar needs of a given user
3762   group (like a specific Service or agency), the information they share is so important that the loss
3763   of a single system may deprive other systems of the data needed to achieve even minimal
3764   capabilities.
3765
3766   **The Army Plan**
3767   This plan is a 16-year strategic planning horizon that includes the 6-year span of the program
3768   (POM) years plus an additional 10 years. TAP presents comprehensive and cohesive strategic,
3769   midterm planning and programming guidance that addresses the Army's enduring core
3770   competencies over this time period.
3771
3772   **Transition Planning**
3773   The activities associated with developing the plan and framework for moving from the "As Is" to
3774   the "To Be" using strategic plans, Business Capabilities, and architecture information. It
3775   incorporates investment management decisions made during the Portfolio Management, PPBE,
3776   DAS, and JCIDS processes. It includes the identification of gaps between the "As Is" and the
3777   "To Be."
3778
3779   **Unique**
3780   Systems used at more than one site below Major Command level.
3781
3782   **Warfighter**
3783   A common soldier, sailor, airman, or marine by trade, from all Services who joins in a
3784   coordinated operation to meet a common enemy, a common challenge, or a common goal.
3785
3786   **Warfighting Mission Area**

3787   Warfighting Mission Area (WMA) assets (IT and NSS) enhance joint warfighting while
3788   supporting actions to create a joint, network-centric distributed force, capable of full spectrum
3789   dominance through decision and information superiority. WMA assets ensure COCOMs can
3790   win the War on Terrorism; fight as a Joint Force; and transform "in stride" – fielding new
3791   capabilities and adopting new operational concepts while actively taking the fight to the enemy.
3792   WMA assets that are knowledge empowered, networked, interoperable, expeditionary,
3793   adaptable/tailorable, enduring, precise, fast, resilient, agile and lethal. (See National Military
3794   Strategy, 2004 and the Capstone for Joint Operations, Aug 2005)